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     FILE 'REGISTRY' ENTERED AT 13:49:49 ON 24 SEP 2008
L1              STRUCTURE UPLOADED
L2            0 S L1
L3           38 S L1 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 13:50:43 ON 24 SEP 2008
L4           18 S L3
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=> file registry
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES:   23 SEP 2008  HIGHEST RN 1052062-90-4
DICTIONARY FILE UPDATES:  23 SEP 2008  HIGHEST RN 1052062-90-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
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http://www.cas.org/support/stngen/stndoc/properties.html

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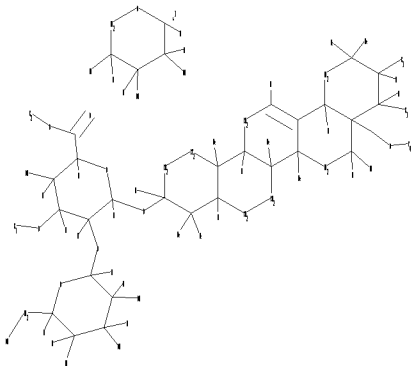

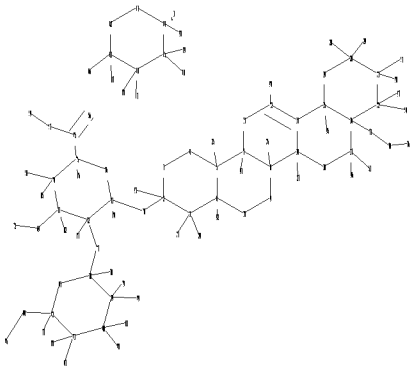

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89 90 91
92 93 94 95 96 97 98
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 31
32 33 34 35 36 38 39 40 41 42 43 60 61 62 63 64 65
chain bonds :
1-23 1-24 2-30 2-91 5-25 6-92 7-93 8-26 12-94 14-27 15-95 16-73 17-51
17-96 20-28 20-29 21-53 21-98 22-54 22-97 30-31 31-84 32-37 32-83 33-69
33-82 34-50
34-85 35-45 35-86 37-38 38-78 39-49 39-79 40-48 40-81 41-47 41-80 42-44
42-77 44-46
45-56 45-57 57-59 60-67 60-88 61-66 61-87 64-90 65-68 65-89 69-72 73-74
74-76
ring bonds :
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31-36 32-33

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62-63  63-64
64-65
exact/norm bonds :
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41-80  42-44
42-77  44-46  60-88  61-87  64-90  65-89


G1:H,O

G2:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

G3:H,[*1]

G4:C,H

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
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98:CLASS




L1      STRUCTURE UPLOADED

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SAMPLE SCREEN SEARCH COMPLETED -      368 TO ITERATE

100.0% PROCESSED      368 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         6210 TO     8510
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PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 13:50:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7404 TO ITERATE

100.0% PROCESSED 7404 ITERATIONS 38 ANSWERS
SEARCH TIME: 00.00.01

L3 38 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 178.82 179.03

FILE 'HCAPLUS' ENTERED AT 13:50:43 ON 24 SEP 2008
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FILE COVERS 1907 - 24 Sep 2008 VOL 149 ISS 13
FILE LAST UPDATED: 23 Sep 2008 (20080923/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l3
L4 18 L3

=> d l4 1-18 ti abs bib hitstr

L4 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from

Eryngium yuccifolium

AB Phytochem. investigation on the whole plant of Eryngium yuccifolium resulted in the isolation and identification of three phenolic compds. (1-3) and 12 polyhydroxylated triterpenoid saponins, named eryngiosides A-L (4-15), together with four known compds. kaempferol-3-O-(2,6-di-O-trans-p-coumaroyl)-β-D-glucopyranoside (16), caffeic acid (17), 21β-angeloyloxy-3β-[β-D-glucopyranosyl-(1→2)]-[β-D-xylopyranosyl-(1→3)]-β-D-glucuronopyranosyloxyolean-12-ene-15α,16α,22α,28-tetrol (18), and saniculasaponin III (19). This study reports the isolation of these compds. and their structural elucidation by extensive spectroscopic analyses and chemical degradation

AN 2008:785878 HCAPLUS <<LOGINID::20080924>>
DN 149:171225

TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from Eryngium yuccifolium

AU Zhang, Zhizhen; Li, Shiyou; Ownby, Stacy; Wang, Ping; Yuan, Wei; Zhang, Wanli; Beasley, R. Scott

CS National Center for Pharmaceutical Crops, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX, 75962-6109, USA

SO Phytochemistry (Elsevier) (2008), 69(10), 2070-2080
CODEN: PYTCAS; ISSN: 0031-9422

PB Elsevier Ltd.

DT Journal

LA English

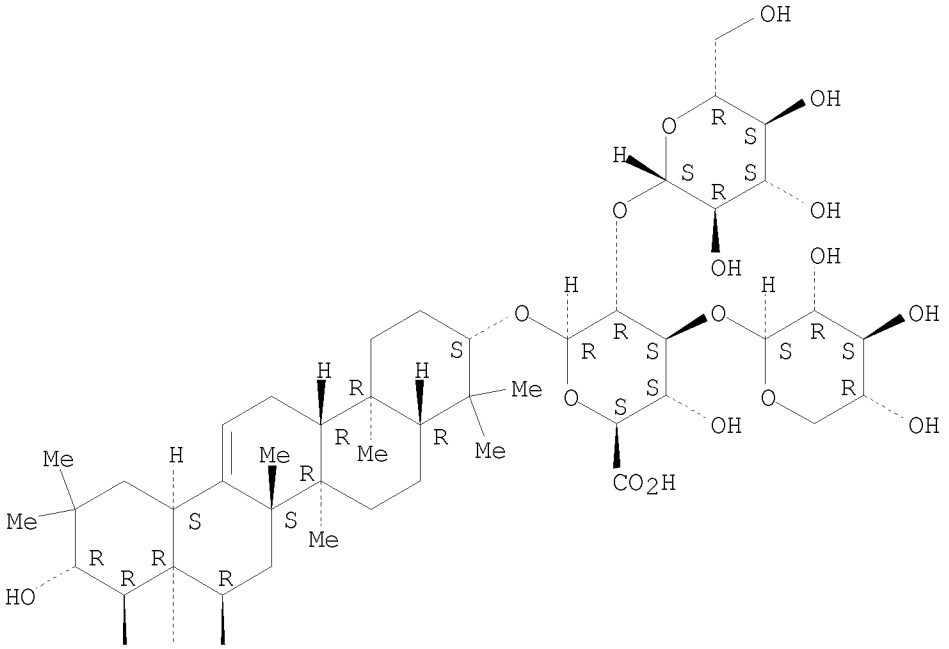
IT 1039557-69-1P, Eryngioside F 1039557-74-8P, Eryngioside K 1039557-75-9P, Eryngioside L
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(phenolic compds. and rare polyhydroxylated triterpenoid saponins from Eryngium yuccifolium)

RN 1039557-69-1 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,28-trihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-buten-1-yl]oxy]olean-12-en-3-yl O-β-D-glucopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



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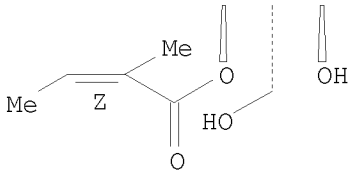
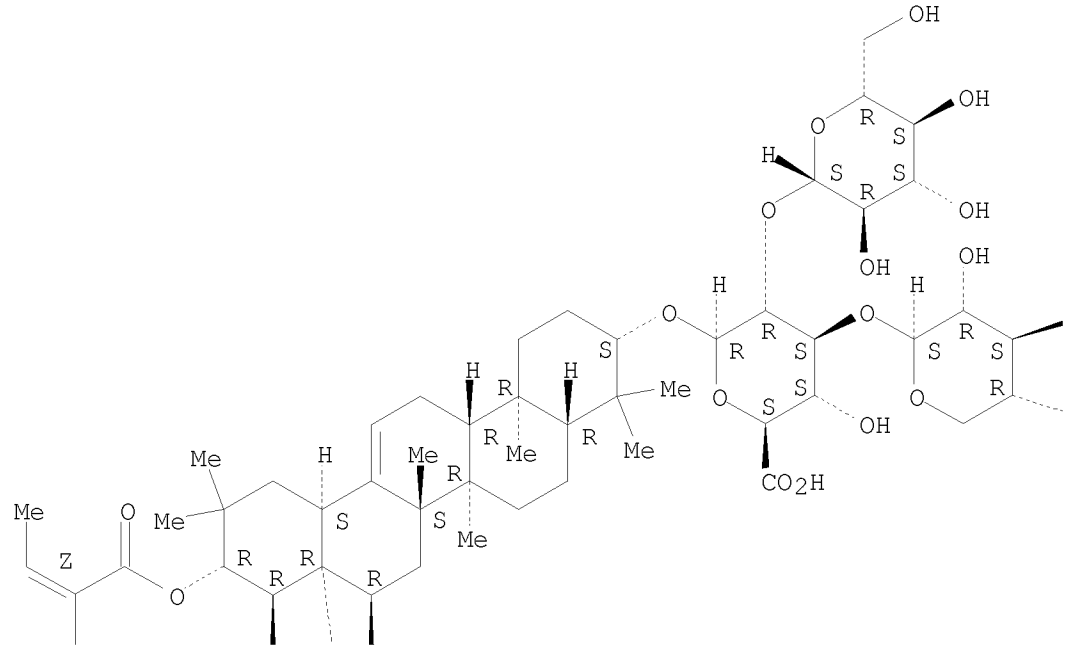


RN 1039557-74-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-22-(acetyloxy)-16,28-dihydroxy-21-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-glucopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

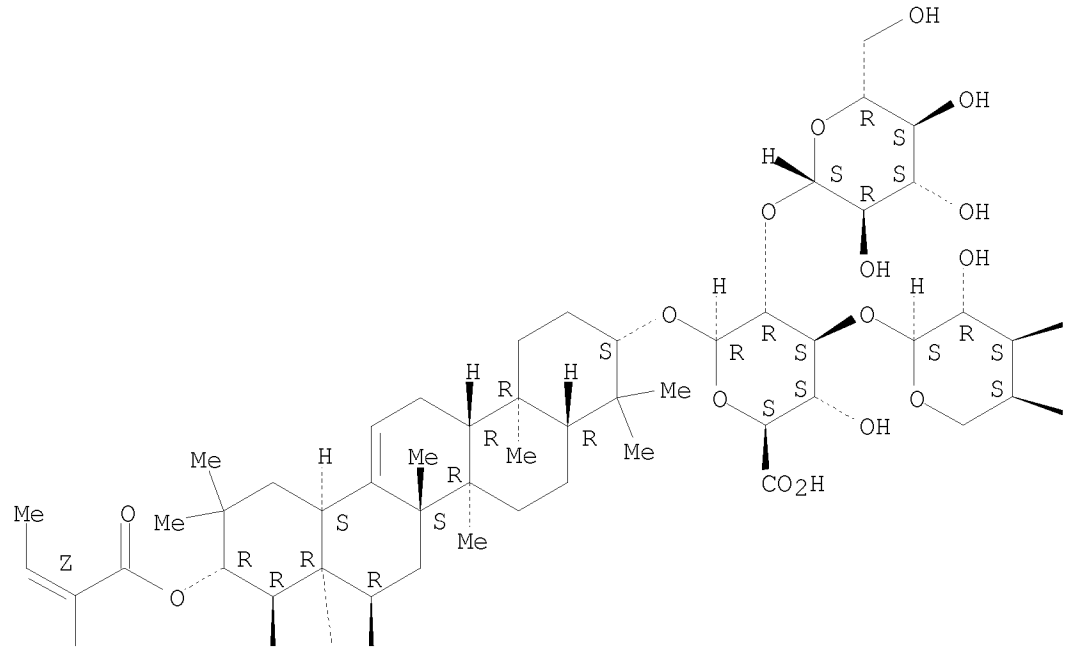
PAGE 2-A

RN 1039557-75-9 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-

22-(acetyloxy)-16,28-dihydroxy-21-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→2)]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



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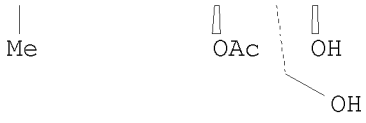

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Composition comprising triterpene saponins and compounds with angeloyl functional group, methods for preparing same and uses thereof
AB This invention provides a compound comprising a triterpenoidal saponin, triterpenoid, triterpenoidal compound or sapongenin, comprising at least two side groups selected from the group consisting of: angeloyl groups, tigloyl groups and senecioyl groups, wherein the side groups are attached to carbon 21, 22 or/and 28 of triterpenoidal saponin, triterpenoid, triterpenoidal compound or sapongenin backbone. This invention provides a composition for inhibiting tumor cell growth, comprising an appropriate amount of a triterpenoidal saponin, triterpenoid, triterpenoidal compound or sapongenin, wherein the triterpenoidal saponin, triterpenoid, triterpenoidal compound or sapongenin comprises any two side groups selected from the group consisting of: angeloyl groups, tigloyl groups and senecioyl groups, wherein the side groups are attached to carbon 21, 22 or/and 28 of triterpenoidal saponin, triterpenoid, triterpenoidal compound or sapongenin backbone.
AN 2006:493929 HCAPLUS <<LOGINID::20080924>>
DN 145:1004
TI Composition comprising triterpene saponins and compounds with angeloyl functional group, methods for preparing same and uses thereof
IN Chan, Pui-Kwong; Mak, May Sung; Wang, Yun
PA USA
SO U.S. Pat. Appl. Publ., 46 pp., Cont.-in-part of U.S. Ser. No. 131,551
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 12

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20060111310	A1	20060525	US 2005-267523	20051104
WO 2005037200	A2	20050428	WO 2004-US33359	20041008
WO 2005037200	A3	20050616		

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WO 2005063273	A1	20050714	WO 2004-US43465	20041223

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PRAI US 2003-509851P P 20031009
US 2003-532101P P 20031223
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US 2004-613811P P 20040927
US 2004-617379P P 20041008
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WO 2004-US43465 A2 20041223
US 2005-906303 A2 20050214
US 2005-117760 A2 20050427
US 2005-675282P P 20050427
US 2005-675284P P 20050427
US 2005-131551 A2 20050517
WO 2005-US31900 A2 20050907
US 2001-944805 A2 20010831
WO 2002-IB4750 W 20020828
US 2003-471384 A2 20030904
US 2005-117745 A2 20050427

US 2005-267523 A2 20051104
US 2005-289142 A 20051128
WO 2006-US16158 W 20060427

OS MARPAT 145:1004

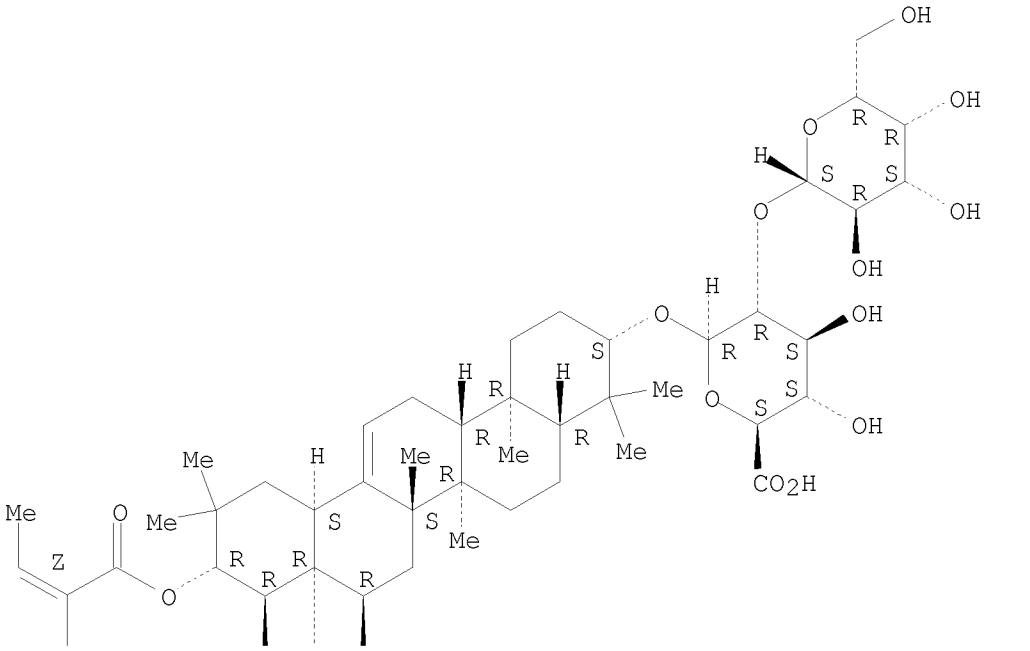
IT 852361-60-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(composition comprising triterpene saponins and compds. with angeloyl functional group for treatment of cancer and other diseases)

RN 852361-60-5 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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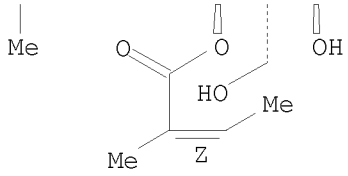


L4 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Novel analgesic compounds, extracts containing same and methods of preparation

AB Various compds. are obtained from plants of the Barringtonia species which are derived from barringtoside A and barringtoside C as precursor compds. which especially have an arabinopyranosyl substituent at the 21 position which may optionally be further substituted with benzoyl, dibenzoyl, Me butanoyl, Me butyryl or tigloyl at the 3 or 4 positions. Alternatively at the 21 position there is provided tigloyl, benzoyl or dibenzoyl substituents. Various barringtoside derivs. were obtained from aqueous exts. of B. acutangula dried bark and their analgesic efficacy was shown in rats hind paw.

AN 2005:493616 HCAPLUS <<LOGINID::20080924>>

DN 143:48023

TI Novel analgesic compounds, extracts containing same and methods of preparation

IN Quinn, Ronald; Mills, Clive

PA Griffith University, Australia; Jarlmadangah Buru Aboriginal Corporation

SO PCT Int. Appl., 103 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051969	A1	20050609	WO 2004-AU1660	20041126
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004293125	A1	20050609	AU 2004-293125	20041126
	CA 2547311	A1	20050609	CA 2004-2547311	20041126
	EP 1687320	A1	20060809	EP 2004-797102	20041126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1938326	A	20070328	CN 2004-80039602	20041126
	JP 2007512258	T	20070517	JP 2006-540096	20041126
	IN 2006CN01851	A	20070608	IN 2006-CN1851	20060526
	US 20070270375	A1	20071122	US 2007-580805	20070316
PRAI	AU 2003-906558	A	20031127		
	WO 2004-AU1660	W	20041126		

OS MARPAT 143:48023

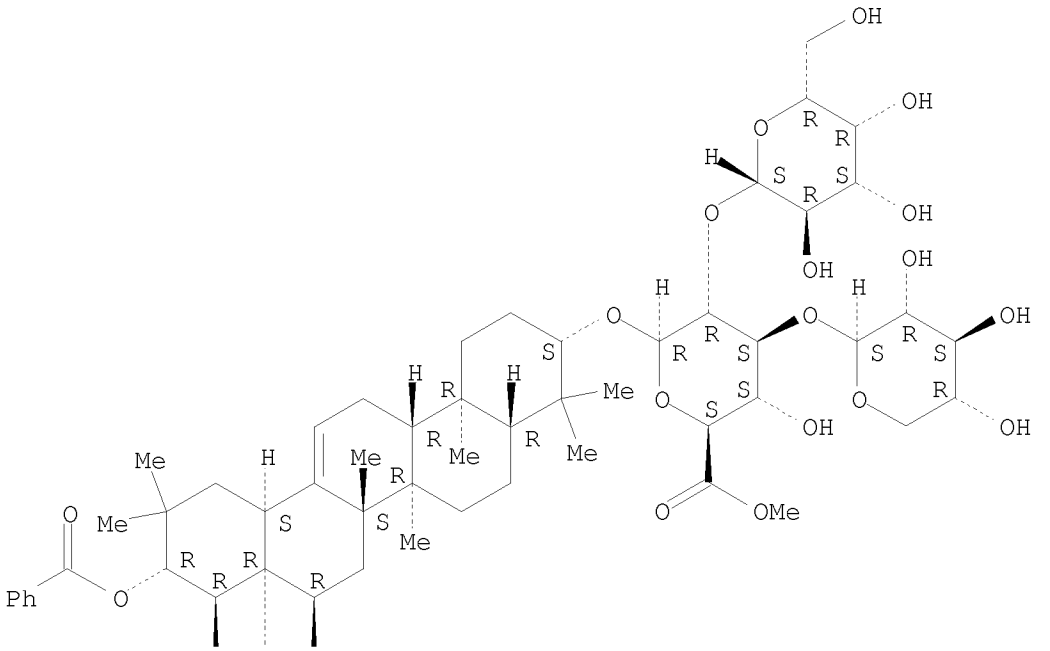
IT 849637-45-2 849637-46-3 849637-47-4
849818-09-3 849818-13-9 849818-20-8
849818-23-1 849818-26-4 853306-55-5
853306-59-9 853306-60-2 853306-62-4
853308-40-4 853308-41-5 853308-42-6
853308-43-7 853308-44-8
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(novel analgesic compds., exts. containing same and methods of preparation)

RN 849637-45-2 HCAPLUS

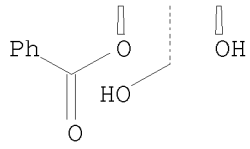
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 2-A

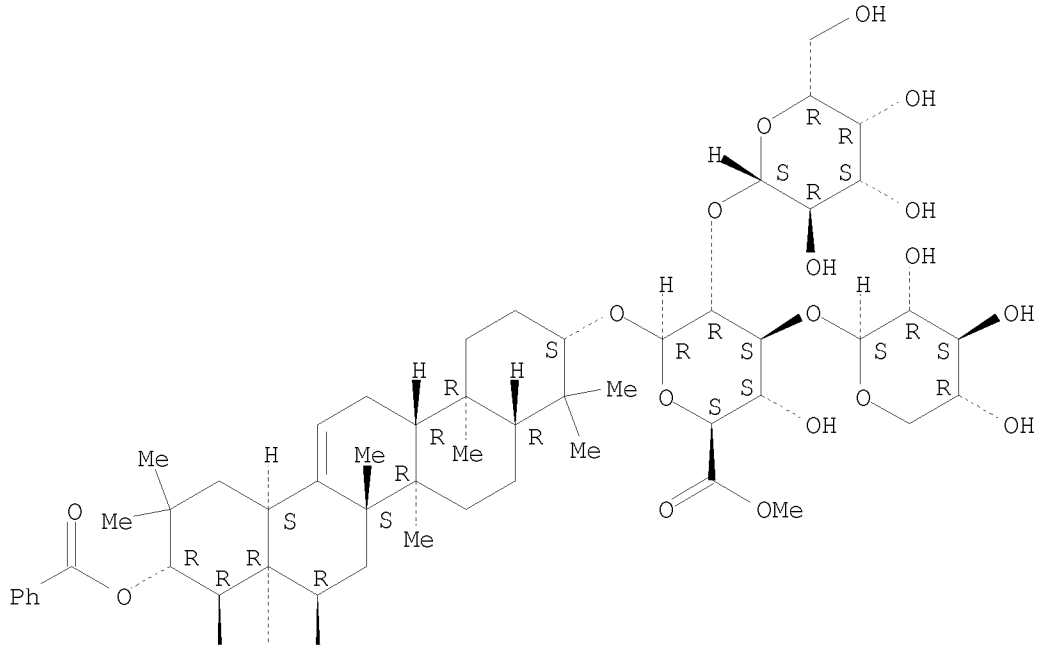


RN 849637-46-3 HCAPLUS

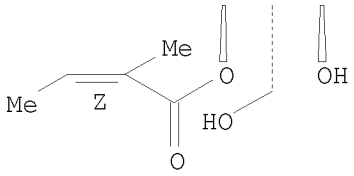
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



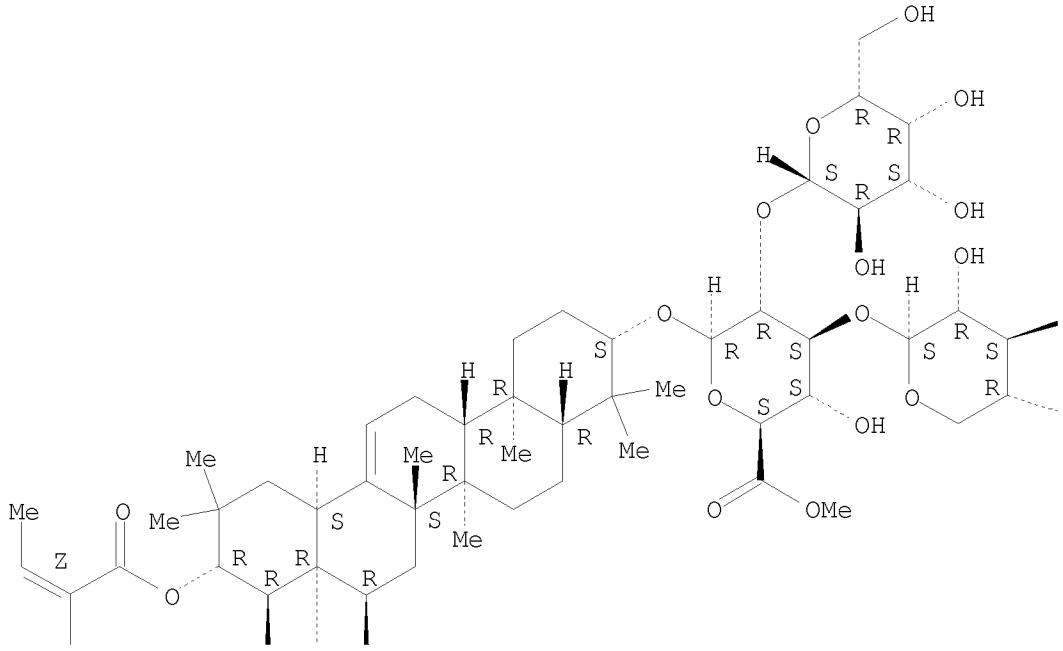
PAGE 2-A



RN 849637-47-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

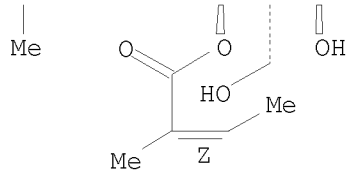
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

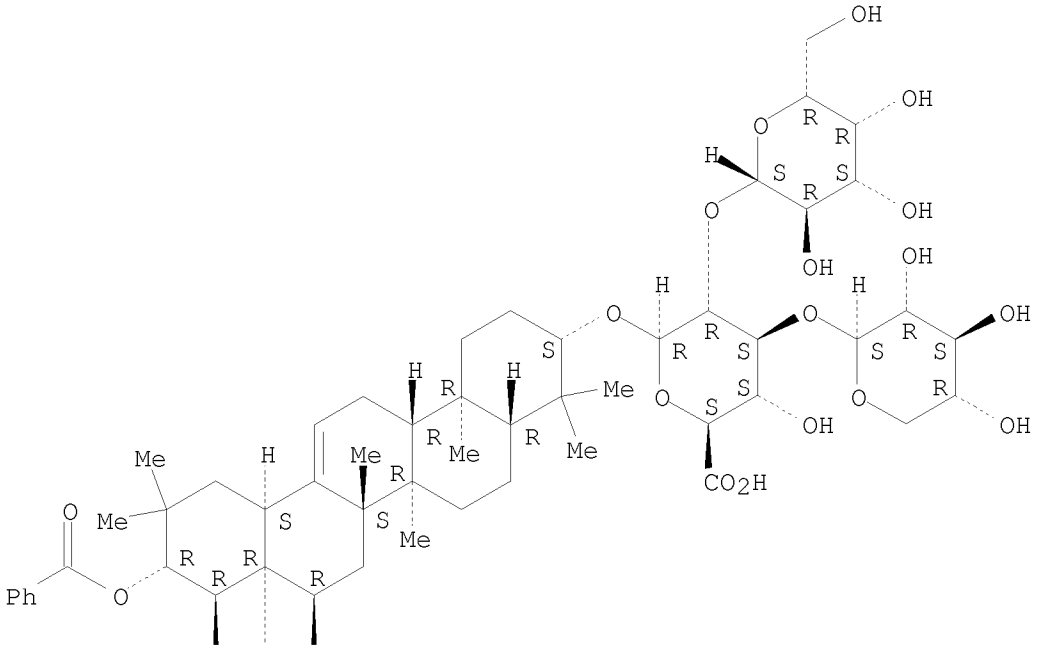
PAGE 2-A



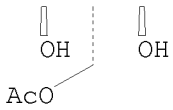
RN 849818-09-3 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-28-(acetyloxy)-21-(benzoyloxy)-16,22-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



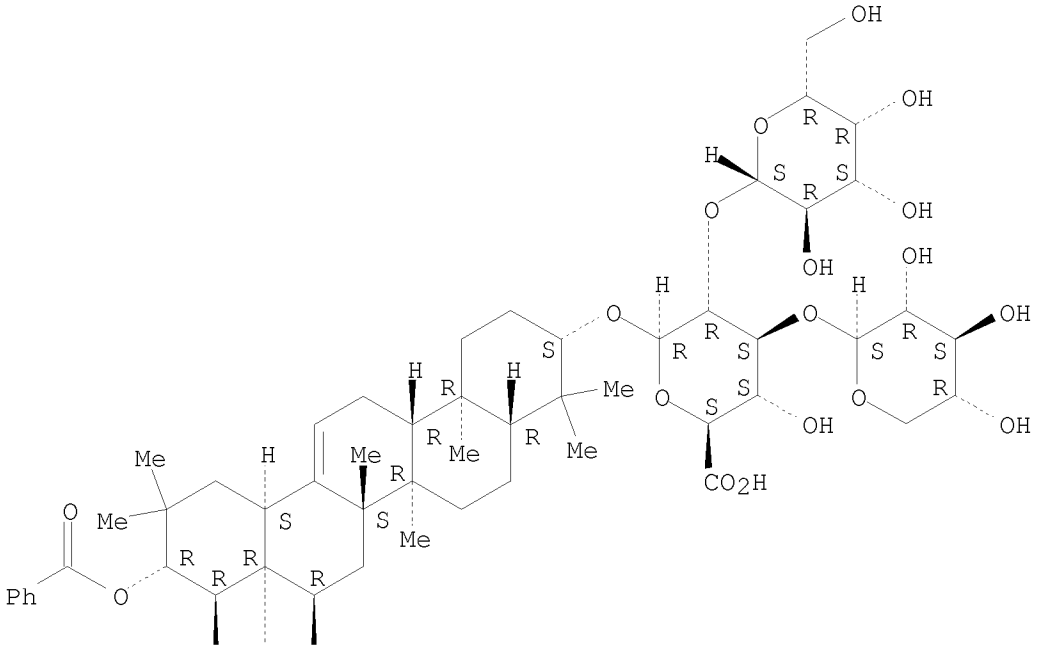
PAGE 2-A



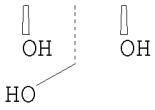
RN 849818-13-9 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,22,28-trihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



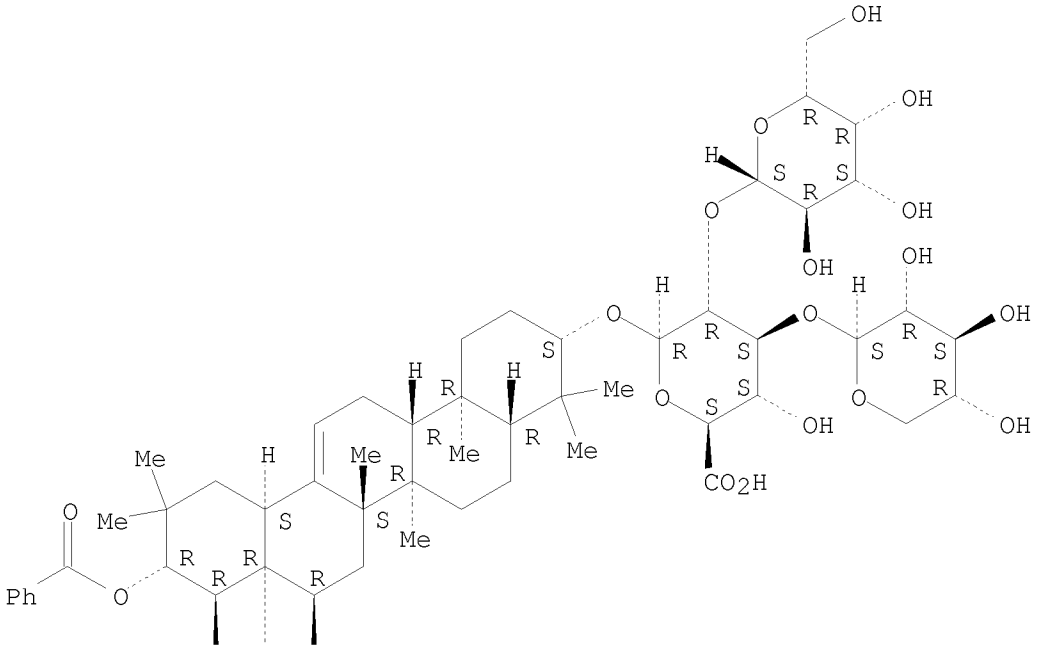
PAGE 2-A



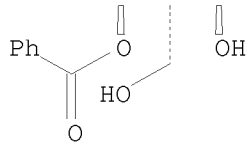
RN 849818-20-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



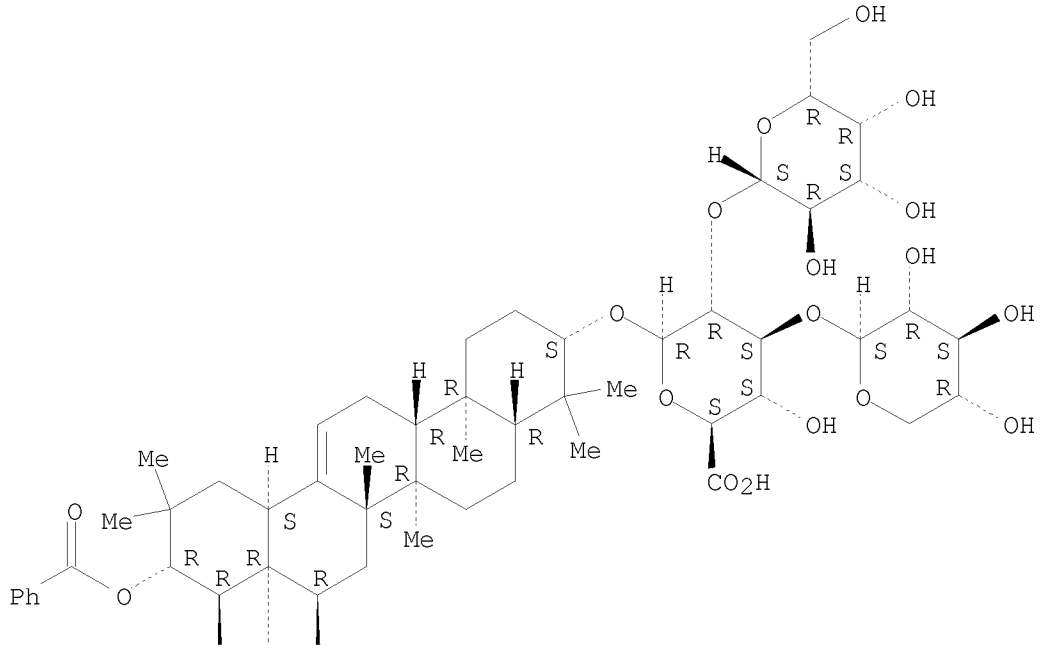
PAGE 2-A



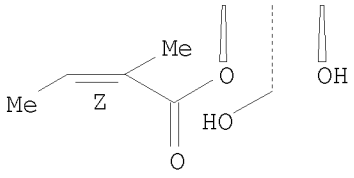
RN 849818-23-1 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



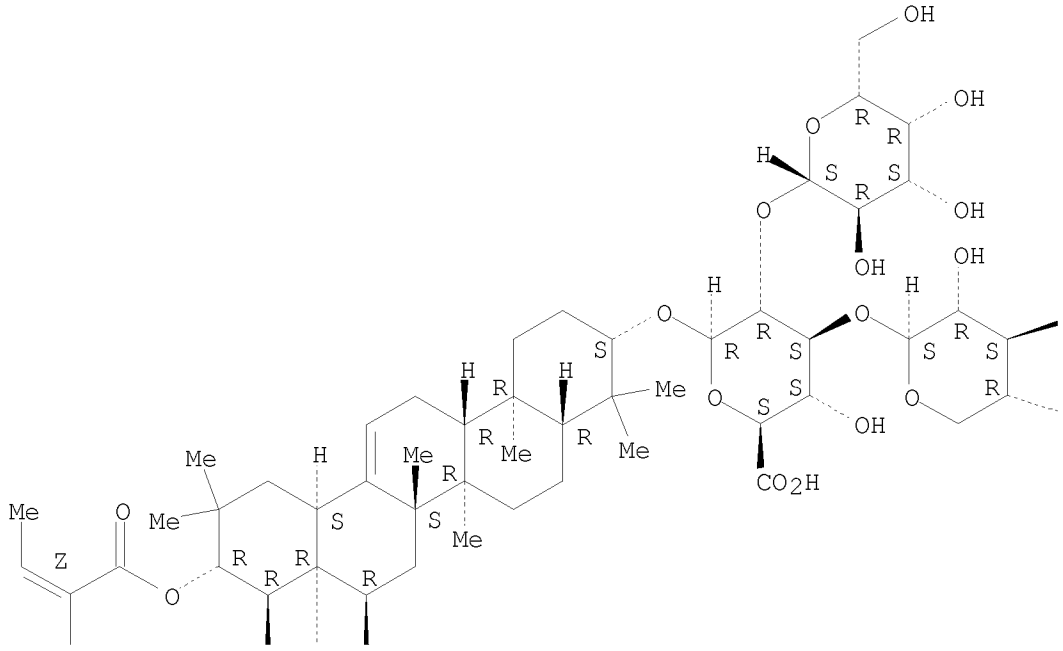
PAGE 2-A



RN 849818-26-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

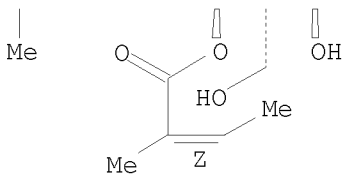
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

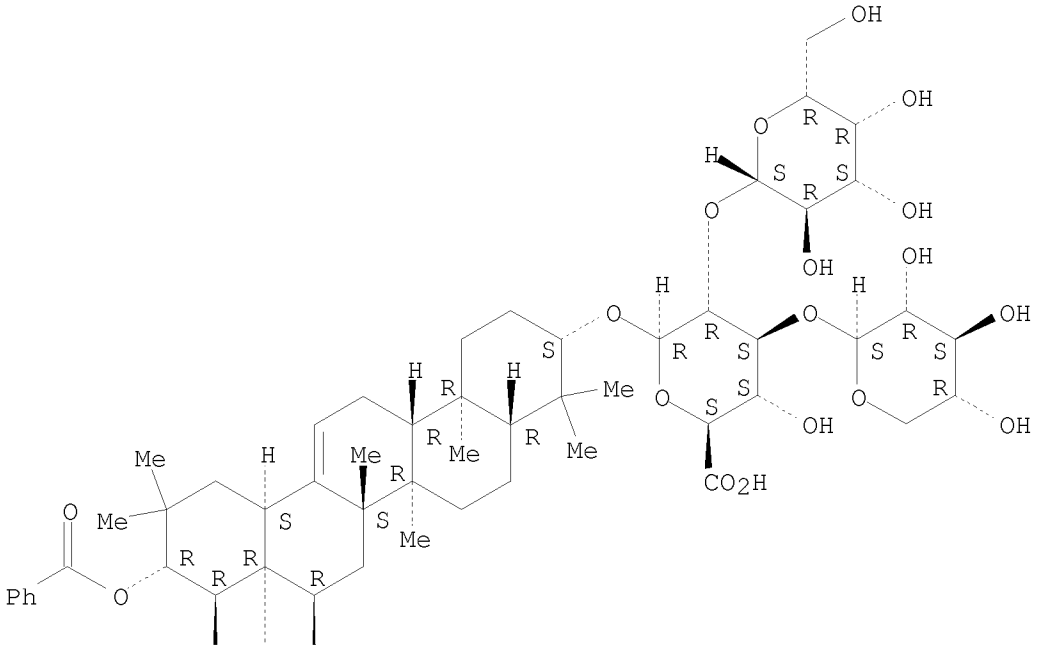
PAGE 2-A



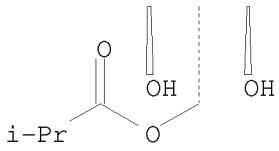
RN 853306-55-5 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
21-(benzoyloxy)-16,22-dihydroxy-28-(2-methyl-1-oxopropoxy)olean-12-en-3-yl
O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-
(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



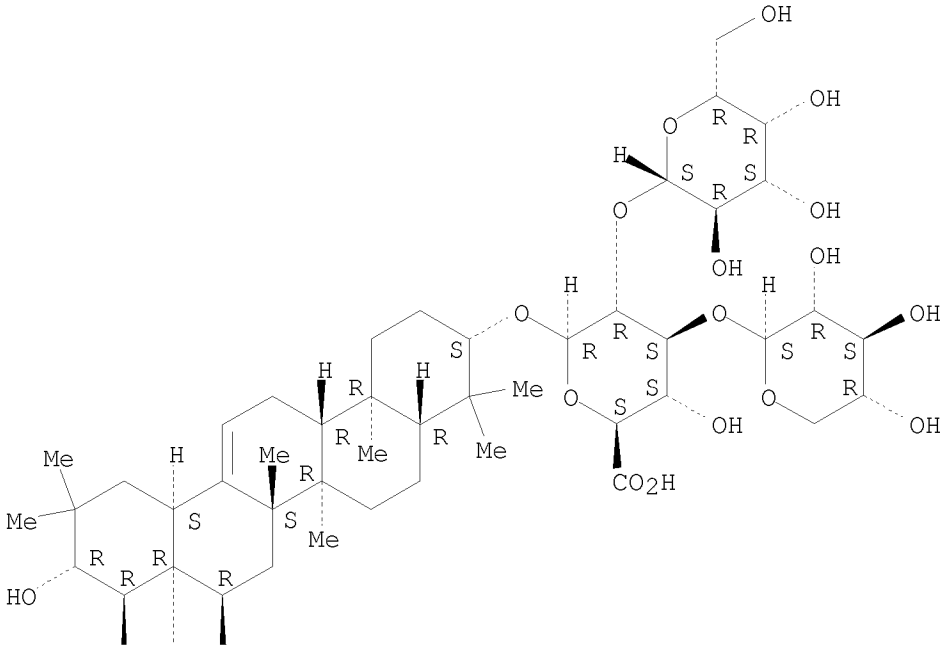
PAGE 2-A



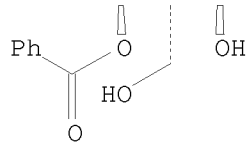
RN 853306-59-9 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
22-(benzoyloxy)-16,21,28-trihydroxyolean-12-en-3-yl O-β-D-
galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

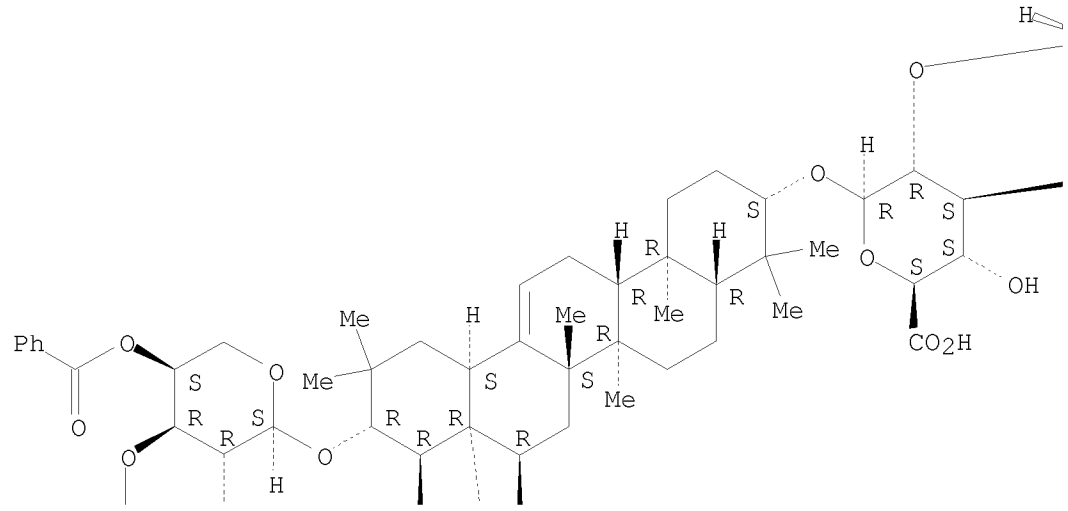


RN 853306-60-2 HCAPLUS

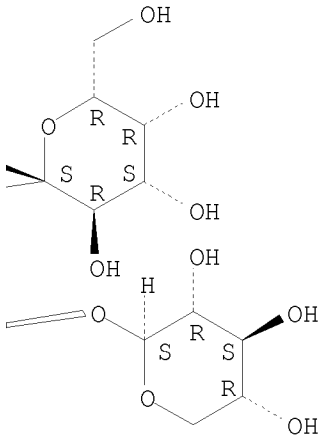
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-22-(acetyloxy)-21-[(3,4-di-O-benzoyl-α-L-arabinopyranosyl)oxy]-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



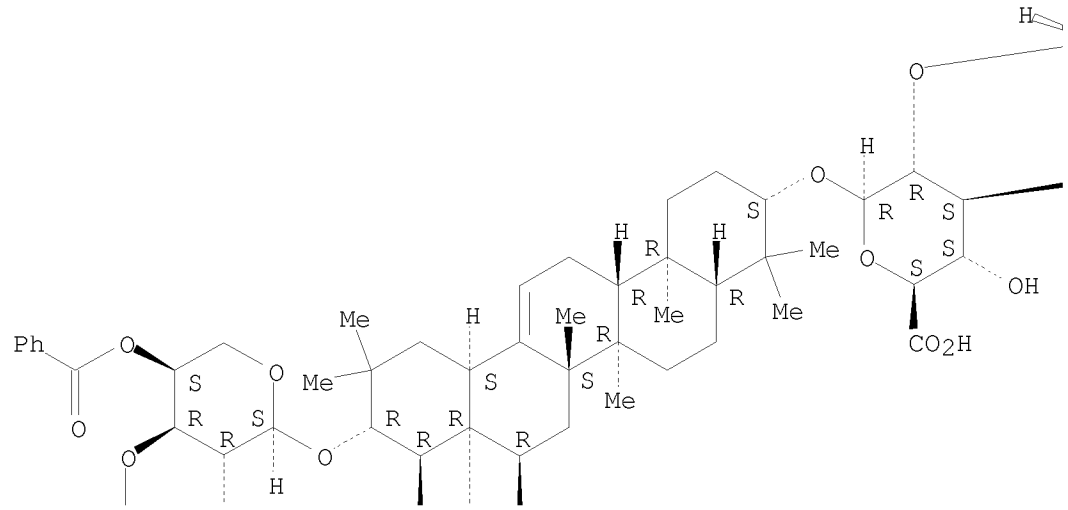
PAGE 2-A

RN 853306-62-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-

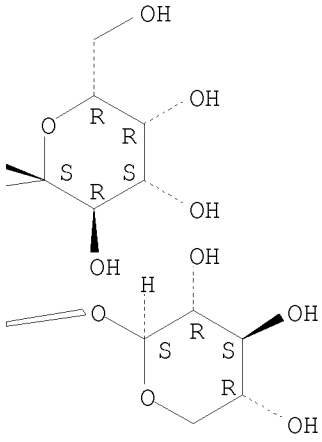
28-(acetyloxy)-21-[(3,4-di-O-benzoyl-α-L-arabinopyranosyl)oxy]-16,22-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

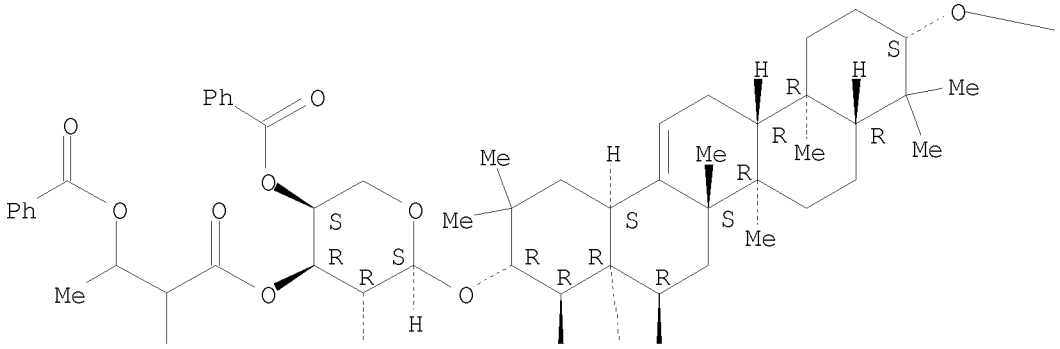


PAGE 2-A

RN 853308-40-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-22-(acetyloxy)-21-[[4-O-benzoyl-3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-α-L-arabinopyranosyl]oxy]-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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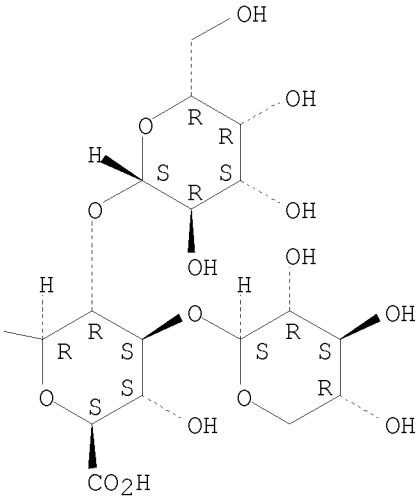

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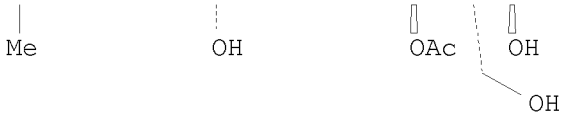
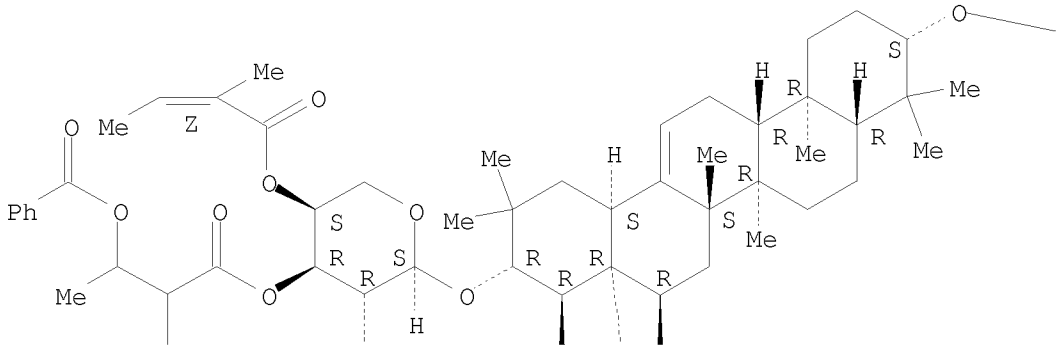


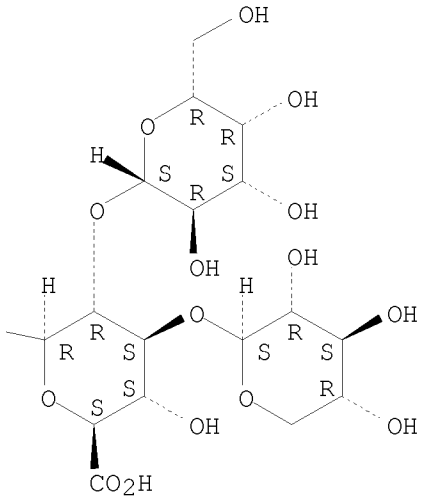
RN 853308-41-5 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-22-(acetyloxy)-21-[[3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-4-O-[(2Z)-2-methyl-1-oxo-2-butenyl]-α-L-arabinopyranosyl]oxy]-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

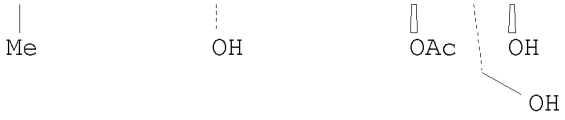
PAGE 1-A



PAGE 1-B



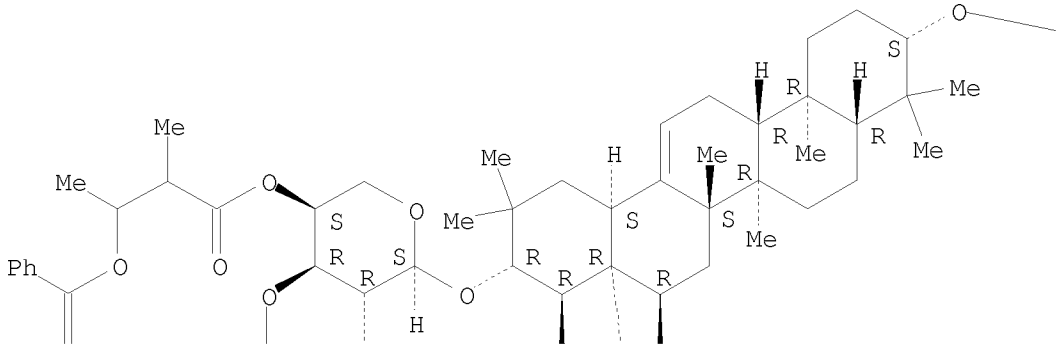
PAGE 2-A



RN 853308-42-6 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
22-(acetyloxy)-21-[[4-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-3-O-[(2Z)-2-
methyl-1-oxo-2-butenyl]-α-L-arabinopyranosyl]oxy]-16,28-
dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-
[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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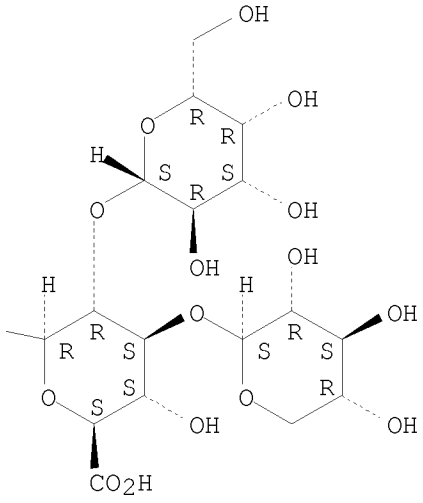
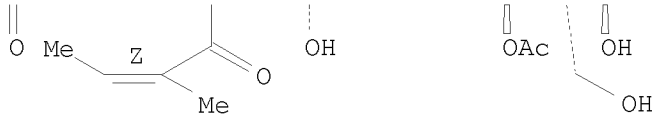


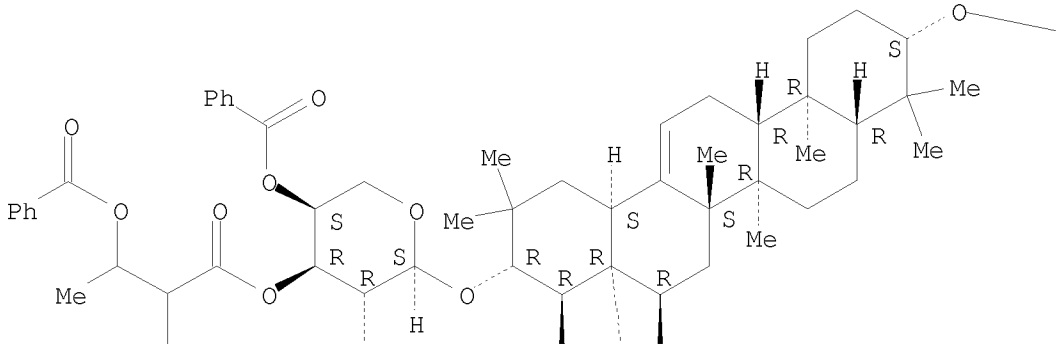
PAGE 2-A



RN 853308-43-7 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
22-(acetyloxy)-21-[[4-O-benzoyl-3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-
α-L-arabinopyranosyl]oxy]-16,28-dihydroxyolean-12-en-3-yl
2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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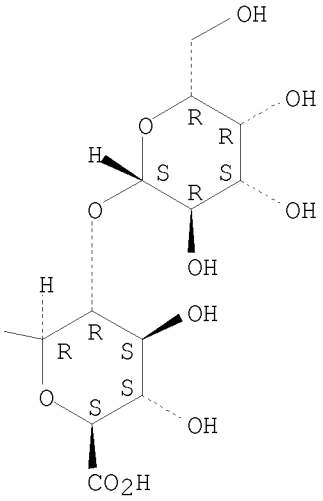
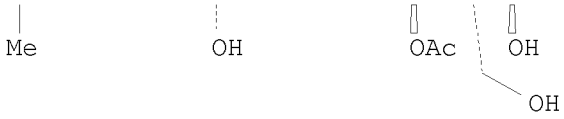


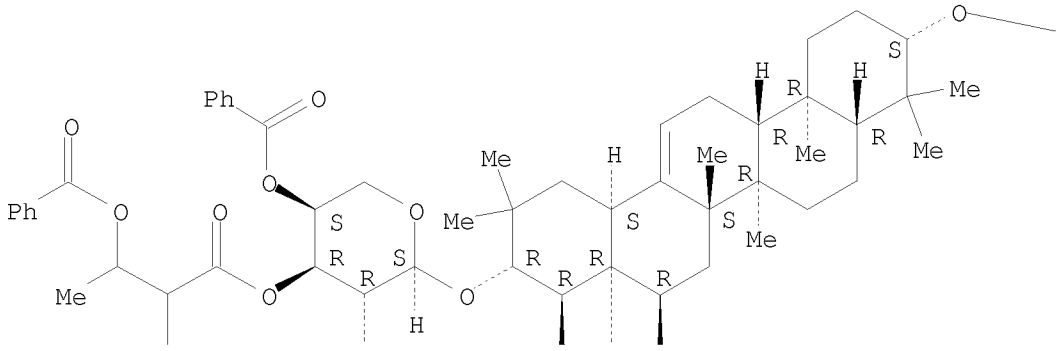
PAGE 2-A



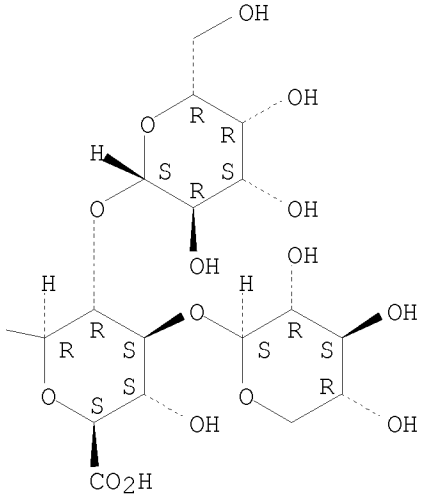
RN 853308-44-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
28-(acetyloxy)-21-[[4-O-benzoyl-3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-
α-L-arabinopyranosyl]oxy]-16,22-dihydroxyolean-12-en-3-yl
O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-
(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



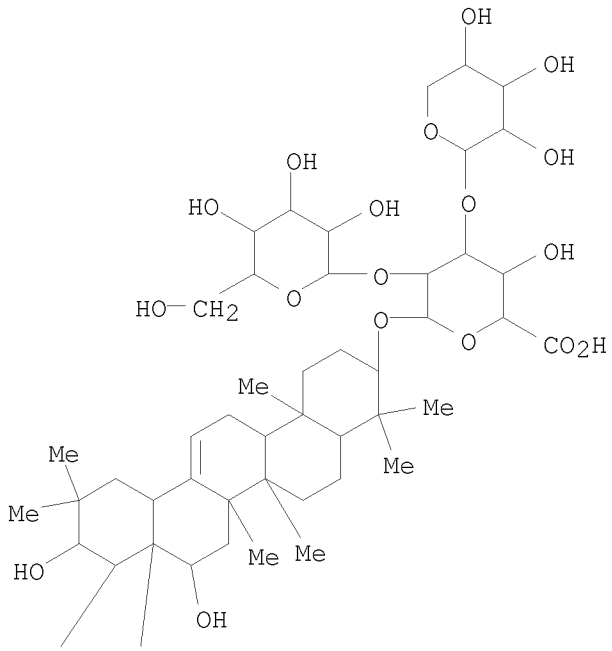
PAGE 2-A

IT 155740-17-3DP, Barringtoside A, derivs. 155836-06-9DP, Barringtoside C, derivs.
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(novel analgesic compds., exts. containing same and methods of preparation)

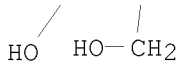
RN 155740-17-3 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

PAGE 1-A



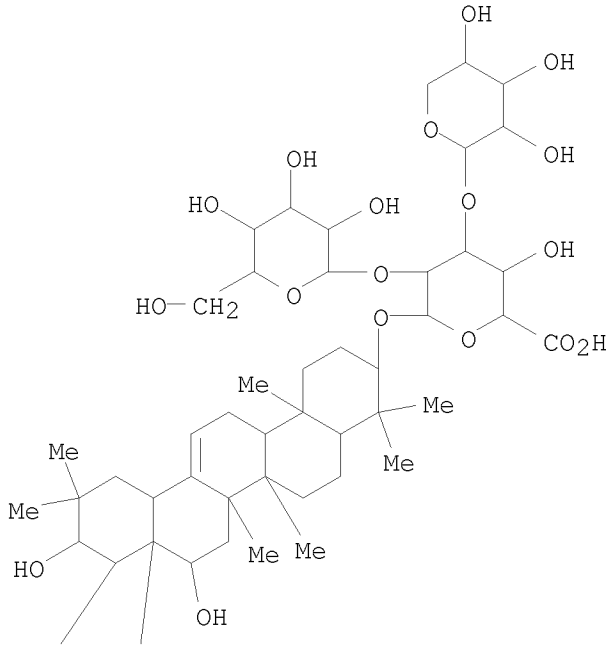
PAGE 2-A



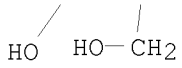
RN 155836-06-9 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-galactopyranosyl-(1→2)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

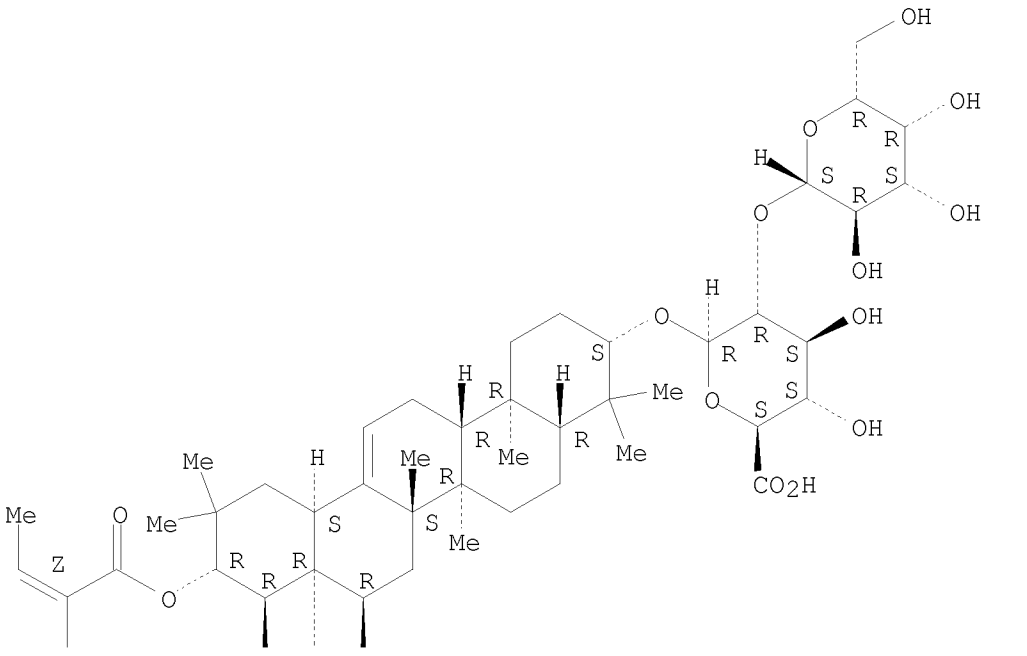
L4 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Haemolytic acylated triterpenoid saponins from Harpullia austro-caledonica
AB Eight new acylated triterpenoid saponins were isolated from the stem bark of Harpullia austro-caledonica along with the known harpuloside (9). Their structures were established using 1D and 2D NMR and mass spectrometry as 3-O-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylbarringtogenol C (1), 3-O-α-L-rhamnopyranosyl-(1→3)-[β-D-galactopyranosyl-(1→2)]-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloyl barringtogenol C (2), 3-O-α-L-arabinofuranosyl-(1→3)-[β-D-galactopyranosyl-(1→2)]-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylbarringtogenol C (3), 3-O-α-L-arabinofuranosyl-(1→2)-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylprotoaescigenin (4), 3-O-α-L-arabinofuranosyl-(1→3)-[α-L-arabinofuranosyl-(1→2)]-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloyl protoaescigenin (5), 3-O-α-L-arabinofuranosyl-(1→3)-[β-D-xylopyranosyl-(1→2)]-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylprotoaescigenin (6), 3-O-α-L-arabinofuranosyl-(1→3)-[β-D-glucopyranosyl-(1→2)]-β-D-glucuronopyranosyl-21β, 22α-di-O-angeloylprotoaescigenin (7), 3-O-β-D-xylopyranosyl-(1→2)-β-D-glucuronopyranosyl-

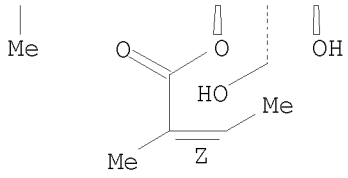
21β, 22α-di-O-angeloylprotoaescigenin (8). The EtOH extract of the stem bark showed in vitro cytotoxic activity against KB cells (90% at 10 μg/mL). At a concentration of 5 μg/mL, the saponin mixture showed hemoltic activity and caused 100% hemolysis of a 10% suspension of sheep erythrocytes.

AN 2005:265703 HCAPLUS <<LOGINID::20080924>>
DN 143:4146
TI Haemolytic acylated triterpenoid saponins from Harpullia austro-caledonica
AU Voutquenne, Laurence; Guinot, Pauline; Froissard, Clement; Thoison, Odile; Litaudon, Marc; Lavaud, Catherine
CS Laboratoire de Pharmacognosie, IFR 53 Biomolecules, FRE CNRS 2715, Reims, 51097, Fr.
SO Phytochemistry (Elsevier) (2005), 66(7), 825-835
CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier B.V.
DT Journal
LA English
IT 852361-60-5P
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(hemolytic acylated triterpenoid saponins from Harpullia austrocaledonica)
RN 852361-60-5 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



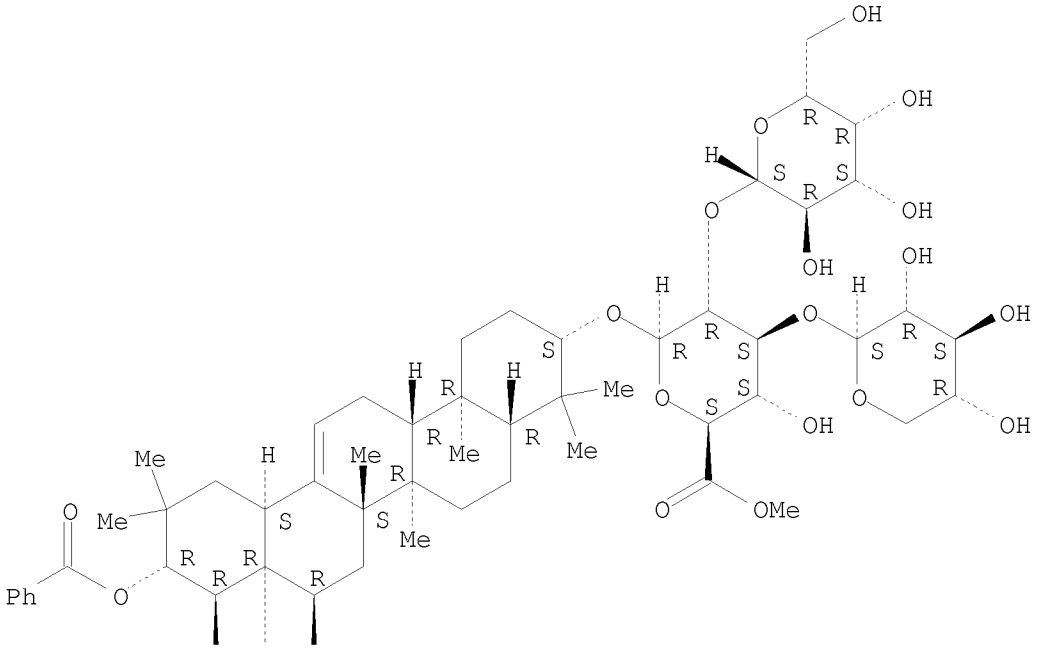


RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

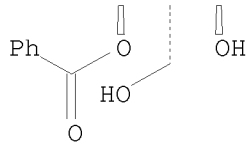
L4 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Acutangulosides A-F, monodesmosidic saponins from the bark of Barringtonia acutangula
AB Nine triterpene saponins, acutangulosides A-F, acutanguloside D-F Me esters, and a single triterpene aglycon were isolated from a water extract of the bark of Barringtonia acutangula. Their structures were assigned on the basis of spectroscopic data.
AN 2005:128141 HCAPLUS <<LOGINID::20080924>>
DN 142:389142
TI Acutangulosides A-F, monodesmosidic saponins from the bark of Barringtonia acutangula
AU Mills, Clive; Carroll, Anthony R.; Quinn, Ronald J.
CS Natural Product Discovery, Eskitis Institute, Griffith University, Brisbane, 4111, Australia
SO Journal of Natural Products (2005), 68(3), 311-318
CODEN: JNPRDF; ISSN: 0163-3864
PB American Chemical Society
DT Journal
LA English
IT 849637-45-2, Acutanguloside D methyl ester 849637-46-3, Acutanguloside E methyl ester 849637-47-4, Acutanguloside F methyl ester 849818-06-0, Acutanguloside A 849818-09-3 , Acutanguloside B 849818-13-9, Acutanguloside C 849818-20-8, Acutanguloside D 849818-23-1, Acutanguloside E 849818-26-4, Acutanguloside F
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(saponins from bark of Barringtonia acutangula)
RN 849637-45-2 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 2-A

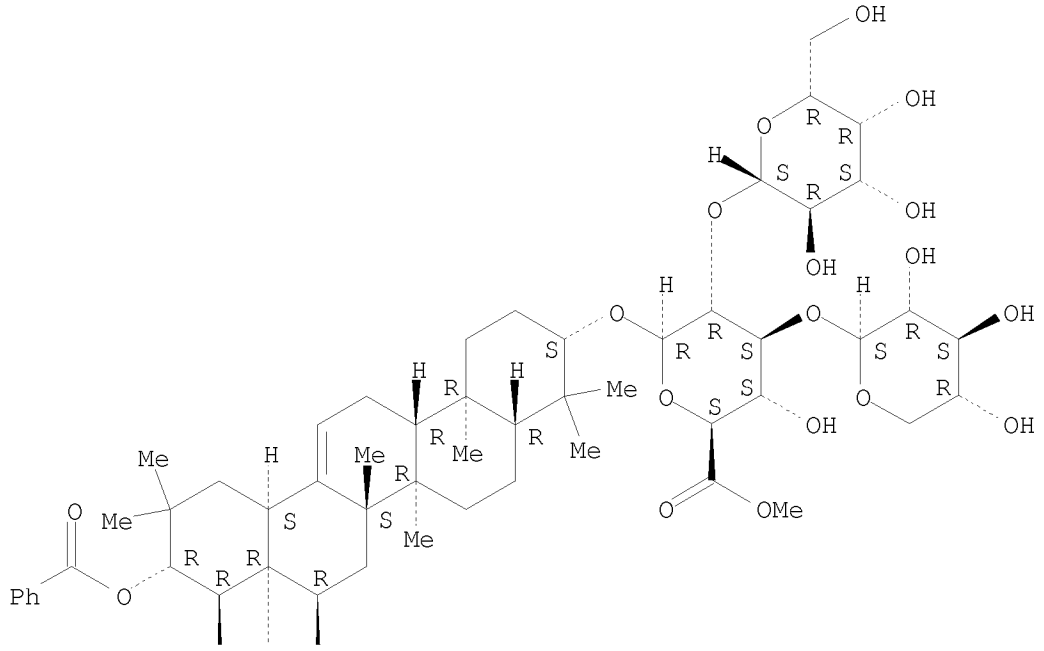


RN 849637-46-3 HCAPLUS

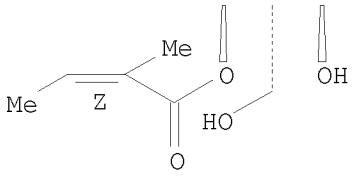
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



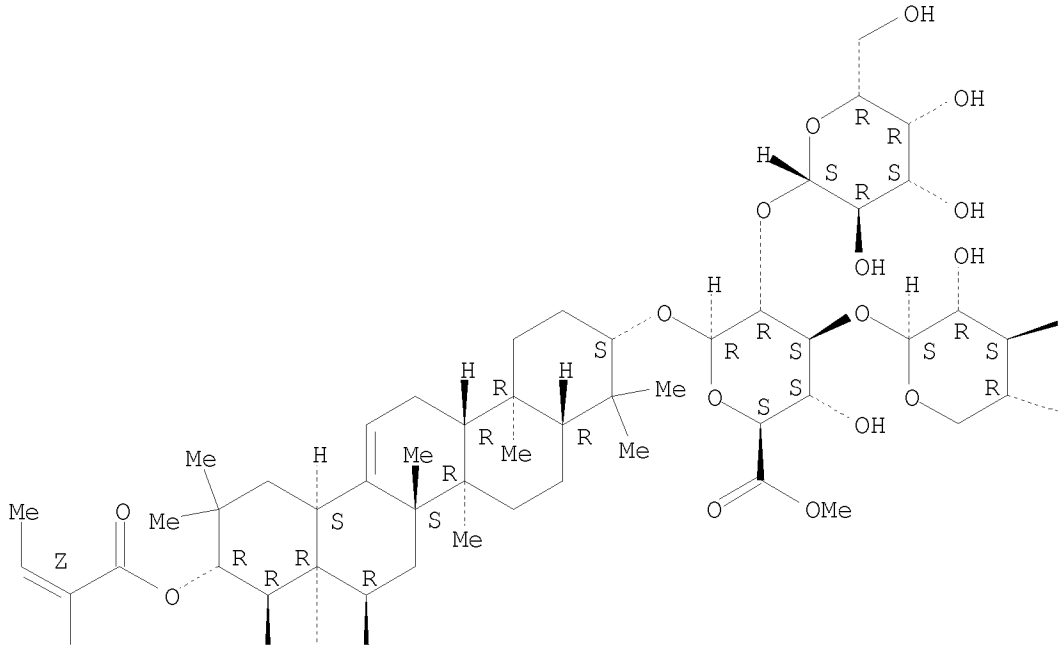
PAGE 2-A



RN 849637-47-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

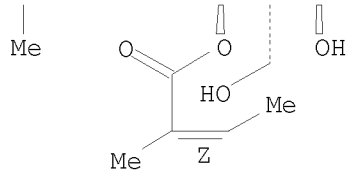
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

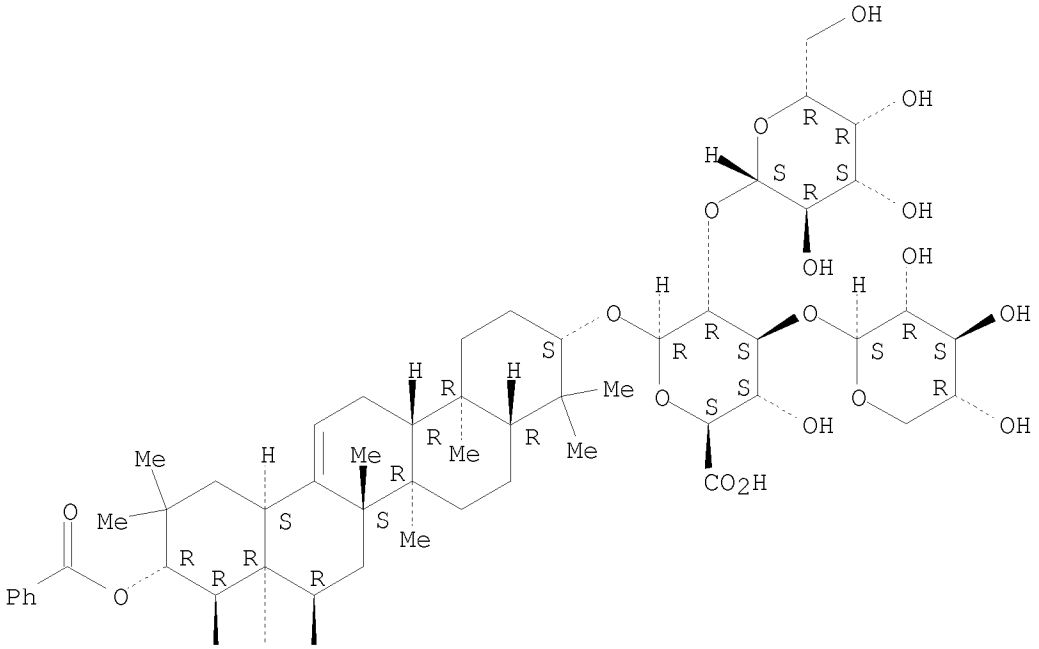
PAGE 2-A



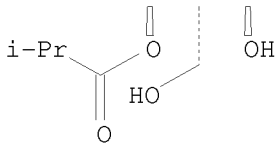
RN 849818-06-0 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
21-(benzoyloxy)-16,28-dihydroxy-22-(2-methyl-1-oxopropoxy)olean-12-en-3-yl
O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-
(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



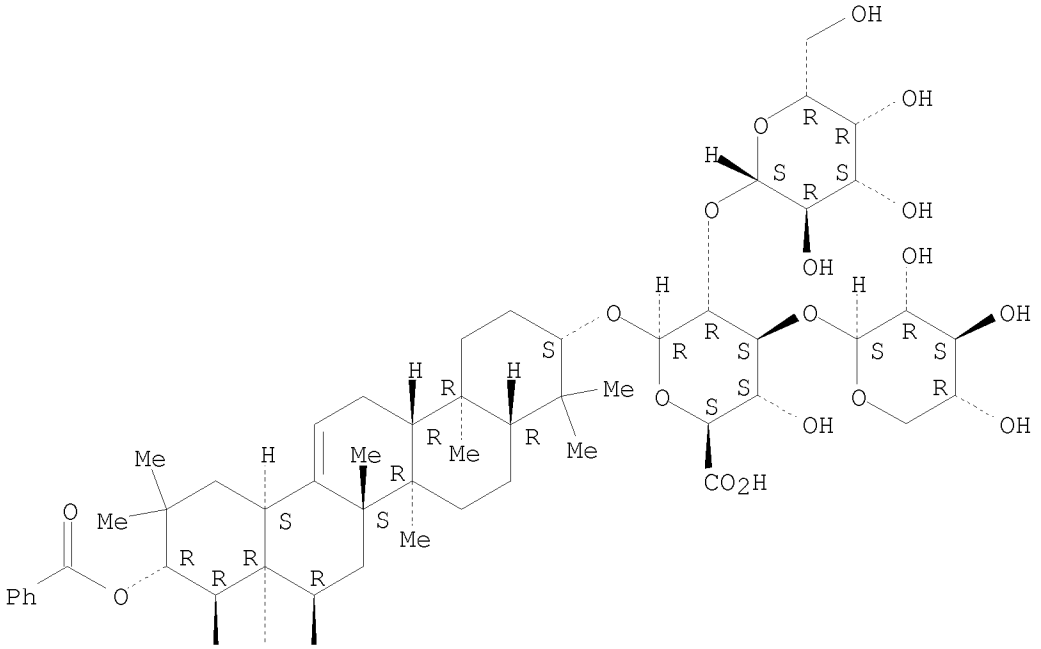
PAGE 2-A



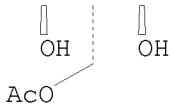
RN 849818-09-3 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
28-(acetyloxy)-21-(benzoyloxy)-16,22-dihydroxyolean-12-en-3-yl
O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-
(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



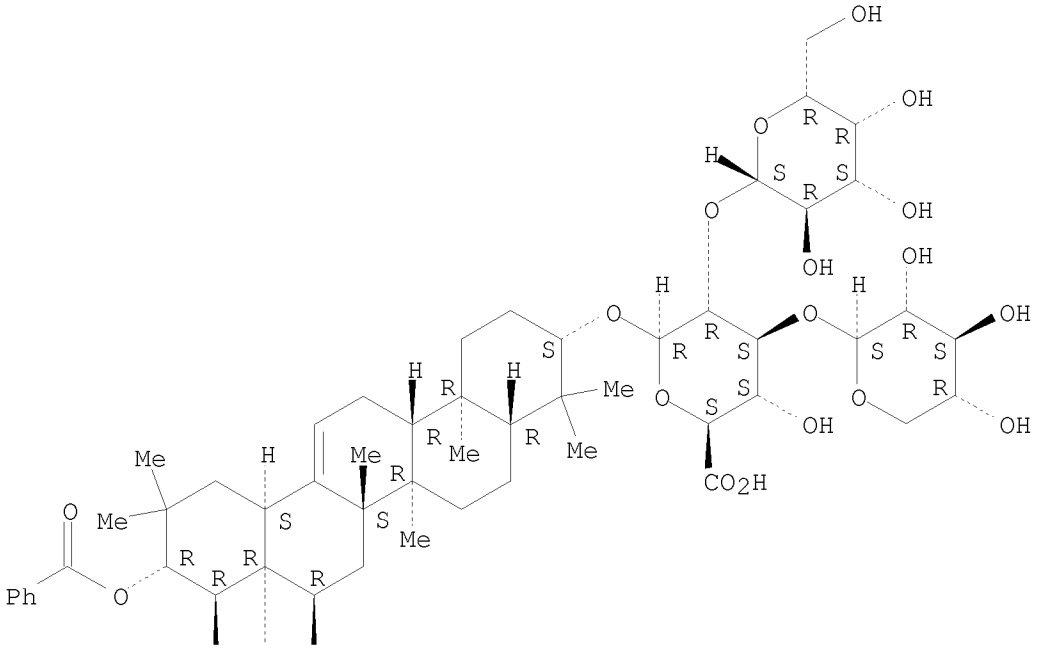
PAGE 2-A



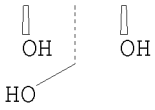
RN 849818-13-9 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,22,28-trihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



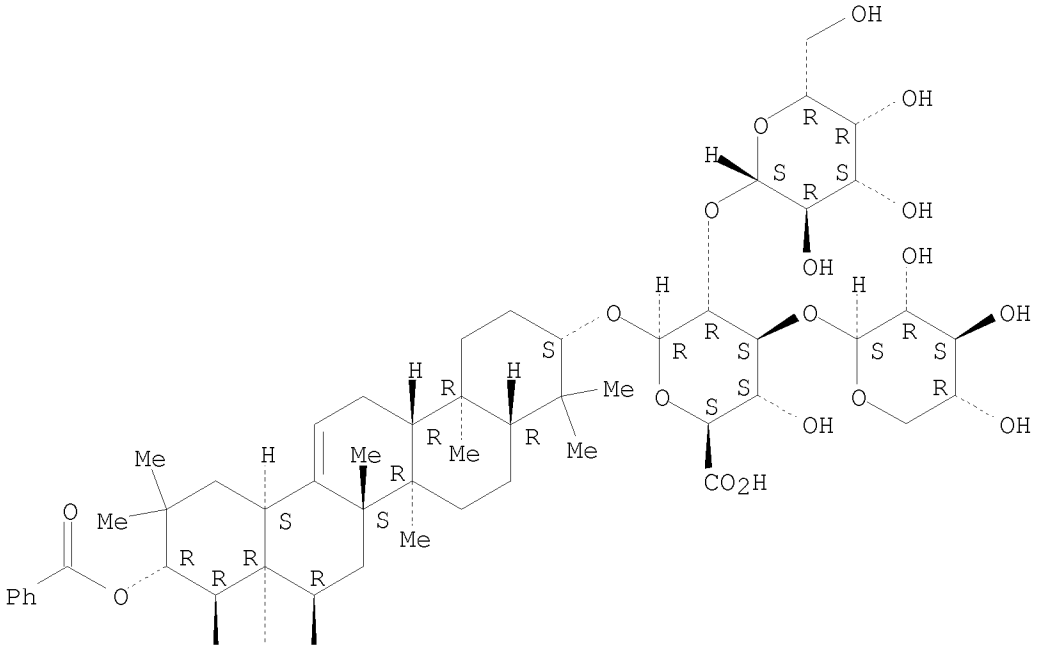
PAGE 2-A



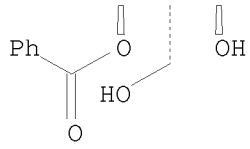
RN 849818-20-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



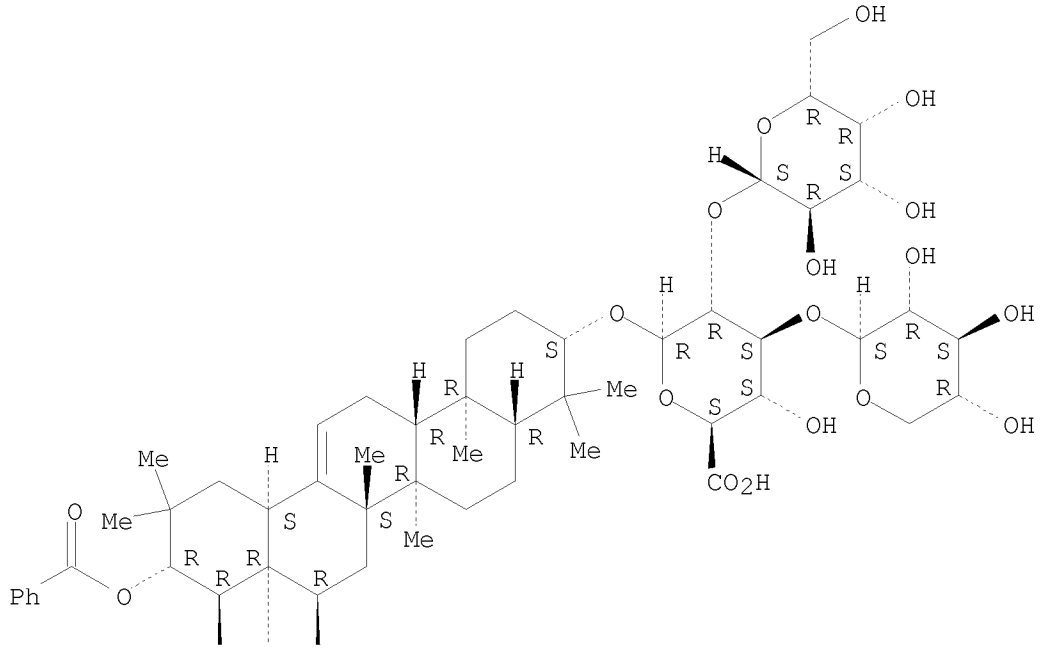
PAGE 2-A



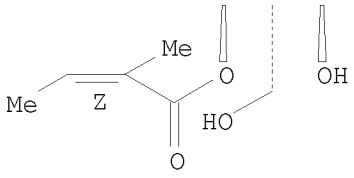
RN 849818-23-1 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



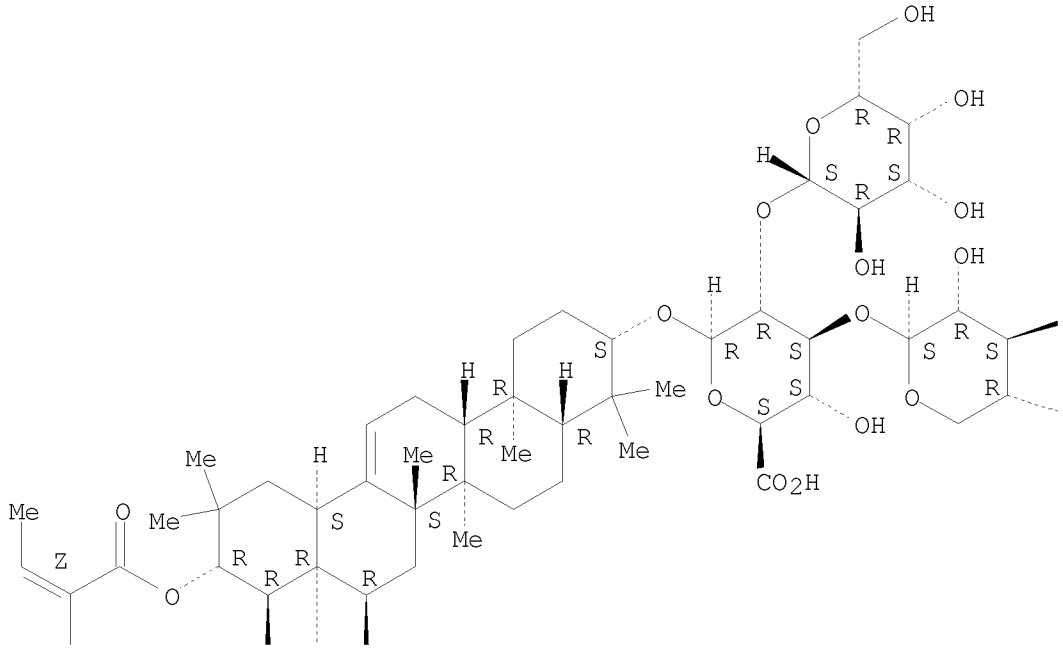
PAGE 2-A



RN 849818-26-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

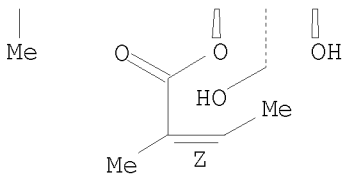
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



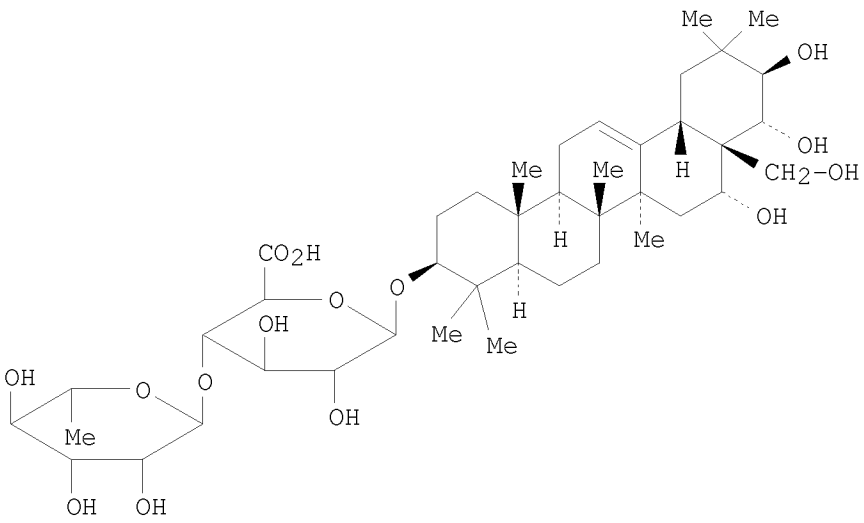
PAGE 1-B

PAGE 2-A



RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Acylated triterpenoid saponins from the stem bark of Foetidia africana
GI



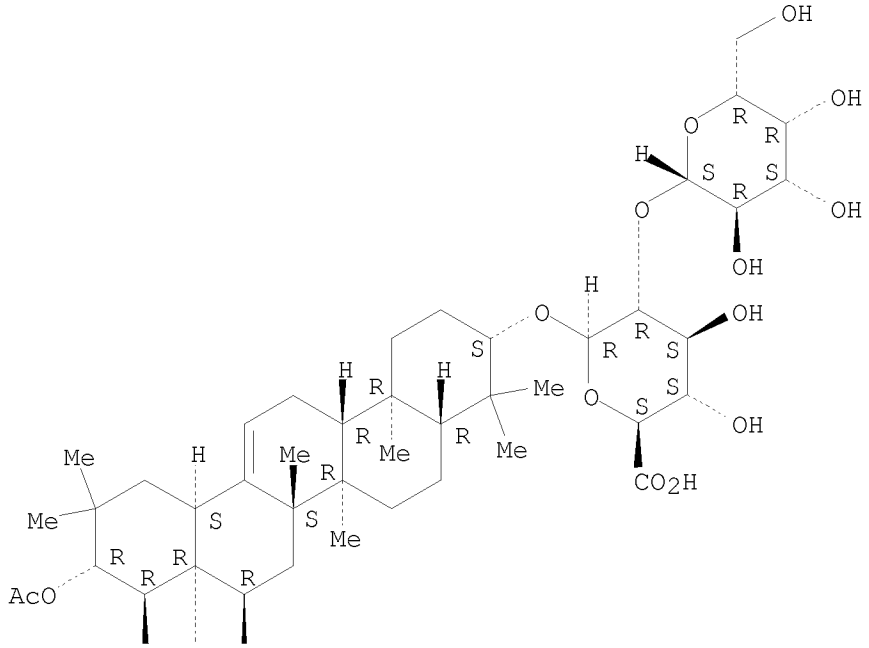
I

AB Nine new acylated triterpenoid saponins (e.g. I) were isolated from the stem bark of Foetidia africana. They all possess barringtogenol C as the aglycon, esterified by acetic and/or isovaleric acids. The sugar chain consists of up to three units: D-glucuronic acid (GlcUA) linked to C-3 of the aglycon and substituted by D-galactose (Gal) (at GlcUA C-2) and/or L-rhamnose (Rha) (at GlcUA C-4). The structures were established by acid and alkaline hydrolysis, by NMR expts. including 1H-1H (COSY, HOHAHA, ROESY) and 1H-13C (HSQC, HMBC) spectroscopy, and by mass spectrometry (ESIMS, ESIMSn).

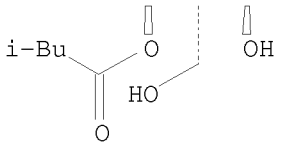
AN 2002:691707 HCAPLUS <<LOGINID::20080924>>
DN 137:349281
TI Acylated triterpenoid saponins from the stem bark of Foetidia africana
AU Crublet, Marie-Laure; Pouny, Isabelle; Delaude, Clement; Lavaud, Catherine
CS Laboratoire de Pharmacognosie, UMR 6013 CNRS, Reims, 51097, Fr.
SO Journal of Natural Products (2002), 65(11), 1560-1567
CODEN: JNPRDF; ISSN: 0163-3864
PB American Chemical Society
DT Journal
LA English
IT 474967-20-9P 474967-21-0P
RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(acylated triterpenoid saponins from Foetidia africana)
RN 474967-20-9 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(acetyloxy)-16,28-dihydroxy-22-(3-methyl-1-oxobutoxy)olean-12-en-3-yl 2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



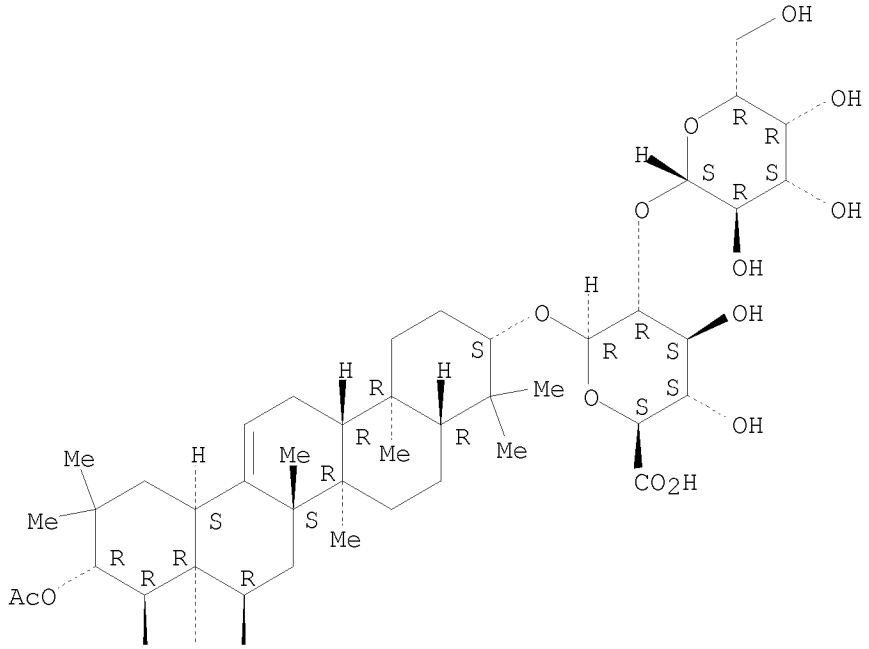
PAGE 2-A



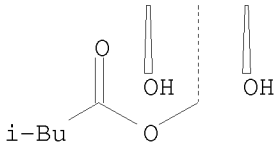
RN 474967-21-0 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-
21-(acetyloxy)-16,22-dihydroxy-28-(3-methyl-1-oxobutoxy)olean-12-en-3-yl
2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Structure-activity relationships of triterpenoid derivatives extracted from Gymnema inodorum leaves on glucose absorption
AB The leaves of Gymnema inodorum (GI) have been known to be effective for some diseases including diabetes mellitus, rheumatic arthritis and gout. The crude saponin mixts. extracted from GI leaves inhibited glucose absorption in the isolated intestinal tract and suppressed the increased blood glucose in rats. In this study, we examined the relationship between chemical structure and pharmacol. activity of the four components from GI leave exts. (GiA-1, GiA-2, GiA-5 and GiA-7). These components were the derivs. of (3β,4α,16β)-16,23,28-trihydroxyolean-12-en-3-yl-β-D-glucopyranosiduroic acid. GiA-2, GiA-5 and GiA-7 that have suppressive effects on the high K+-induced contraction, an increase in ΔPD and the increased blood glucose level in the glucose tolerance test have -H at the 21st position and -CH2OH at 4β of the aglycon. On the other hand, GiA-1 that does not have any effects on the three parameters mentioned above has -H at the 21st position and -CH3 at 4β of aglycon. In conclusion, it is suggested that the inhibitory effect of triterpenoids in Gymnema leaves on glucose absorption from the intestinal

tract relies on -CH2OH at 4β.

AN 2001:473204 HCAPLUS <<LOGINID::20080924>>

DN 135:282672

TI Structure-activity relationships of triterpenoid derivatives extracted from Gymnema inodorum leaves on glucose absorption

AU Shimizu, Kazumasa; Ozeki, Mie; Iino, Akira; Nakajyo, Shinjiro; Urakawa, Norimoto; Atsuchi, Mikito

CS Division of Veterinary Pharmacology, Nippon Veterinary and Animal Science University, Musashino, 180-8602, Japan

SO Japanese Journal of Pharmacology (2001), 86(2), 223-229
CODEN: JJPAAZ; ISSN: 0021-5198

PB Japanese Pharmacological Society

DT Journal

LA English

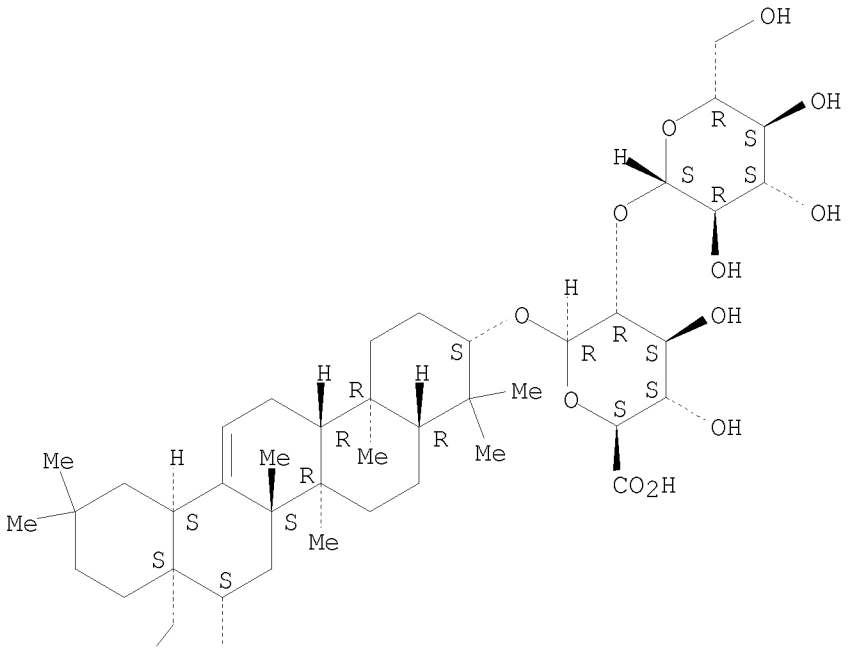
IT 150975-93-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(structure-activity relationships of triterpenoid derivs. extracted from Gymnema inodorum leaves on intestinal absorption of glucose)

RN 150975-93-2 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



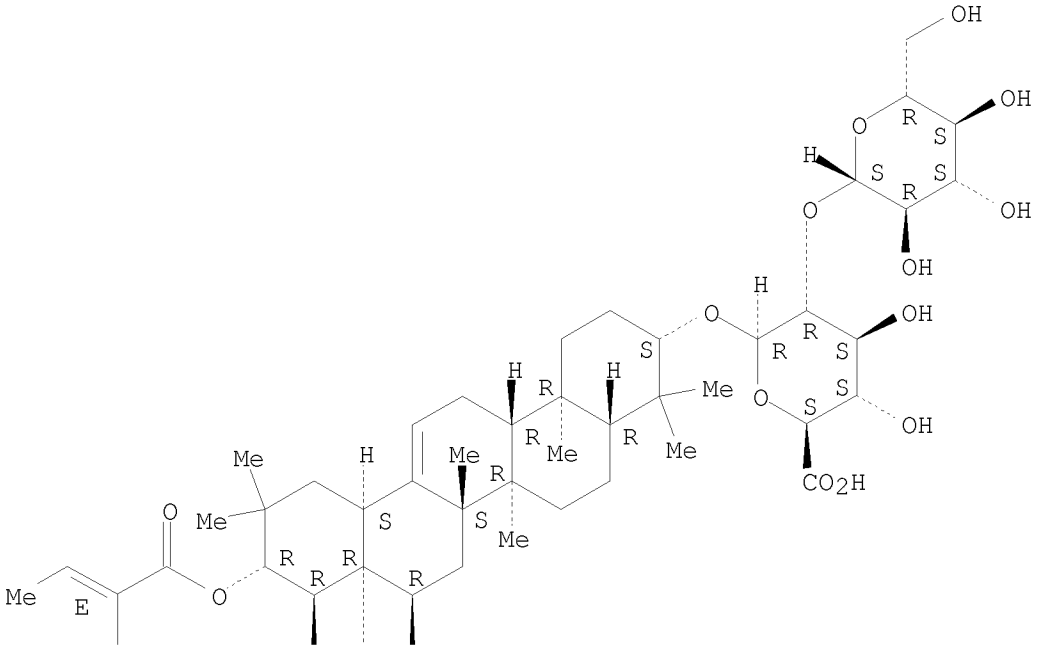
PAGE 2-A

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

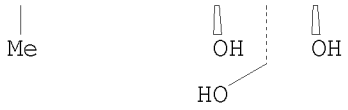
L4 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Triterpenoid saponins from Berneuxia thibetica
AB Four triterpenoid saponins were isolated from Berneuxia thibetica. On the basis of chemical and spectroscopic evidence, three new saponins, berneuxia saponins A, B and C, were elucidated as 21-O-tigloylbarringtogenol C 3-O-{α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)[β-D-glucopyranosyl (1→2)-β-D-glucuronopyranoside]}, 28-O-tigloylbarringtogenol C 3-O-{α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)[β-D-glucopyranosyl(1 →2)-β-D-glucuronopyranoside]}, and 16α-28-dihydroxyolean-12-en-21-one 3β-O-{α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)[β-D-glucopyranosyl(1→2)-β-D-glucuronopyranoside]}, resp. The fourth compound isolated was the known saponin, desacyljegosaponin.
AN 1998:549504 HCAPLUS <<LOGINID::20080924>>
DN 129:287800
OREF 129:58585a,58588a
TI Triterpenoid saponins from Berneuxia thibetica
AU Wang, Ming-Kui; Cai, Hong; Peng, Shu-Lin; Ding, Li-Sheng; Wu, Feng-E.; Cien, Yao-Zu
CS Laboratory of Natural Materia Medica, Chengdu Institute of Biology, Chinese Academy of Sciences, Chengdu, 610041, Peop. Rep. China
SO Phytochemistry (1998), 48(8), 1411-1414
CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier Science Ltd.
DT Journal
LA English
IT 214216-46-3P, 21-O-Tigloylbarringtogenol C 3-O-[β-D-glucopyranosyl (1→2)-β-D-glucuronopyranoside]
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(isolation and mol. structure of triterpenoid saponins from Berneuxia thibetica)
RN 214216-46-3 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,22,28-trihydroxy-21-[[(2E)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

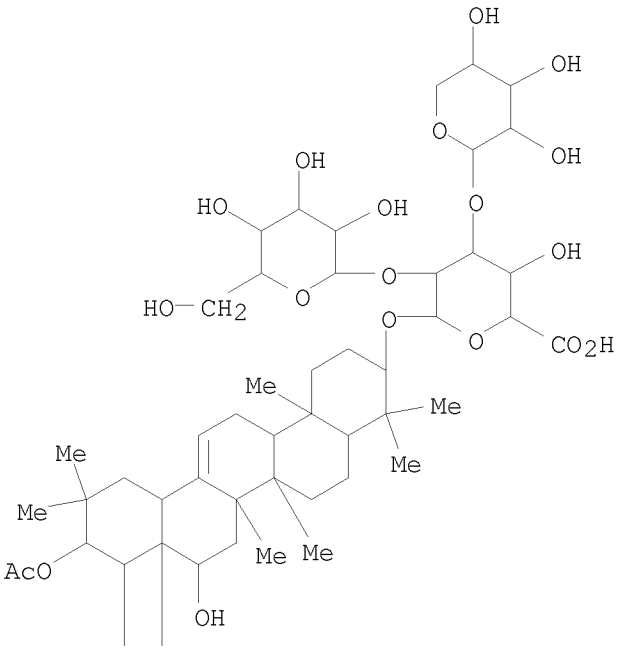


RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

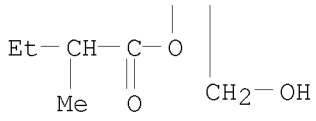
L4 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Saponins from Hacquetia epipactis
AB Four new estersaponins were isolated from Hacquetia epipactis. Using GC-MS, FAB-MS and various 2D-NMR techniques they were identified as 3-O-{β-D-glucopyranosyl-(1→2)-[α-L-arabinopyranosyl-(1→3)]-β-D-glucuronopyranosyl-(1→)}-21-acetyl-22-(2-methylbutyryl)-barringtogenol C (hacquetiasaponin 1), the corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (hacquetiasaponin 2), 3-O-{β-D-glucopyranosyl-(1→2)-[α-L-arabinopyranosyl-(1→3)]-β-D-glucuronopyranosyl-(1→)}-21-acetyl-22(2-methylbutyryl)-R1-barrigenol (hacquetiasaponin 3) and its corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (hacquetiasaponin 4).
AN 1995:593765 HCAPLUS <<LOGINID::20080924>>
DN 123:79647
OREF 123:14107a,14110a
TI Saponins from Hacquetia epipactis
AU Burczyk, Jan; Reznicek, Gottfried; Baumgarten, Sabine; Hugh-Bloch, Martina; Jurenitsch, Johann; Schroder, Harald; Werz, Udo; Haslinger, Ernst
CS Katedra Zaklad Farmakognozji Fitochem., Slaska Akad. Medyczna, Sosnowiec, PL-41-200, Pol.

SO Phytochemistry (1995), 39(1), 195-8
CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier
DT Journal
LA English
IT 165198-42-5P, Hacquetiasaponin 1 165198-43-6P, Hacquetiasaponin 2
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(saponins from Hacquetia epipactis)
RN 165198-42-5 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-21-(acetyloxy)-16,28-dihydroxy-22-(2-methyl-1-oxobutoxy)olean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→2)]- (9CI) (CA INDEX NAME)

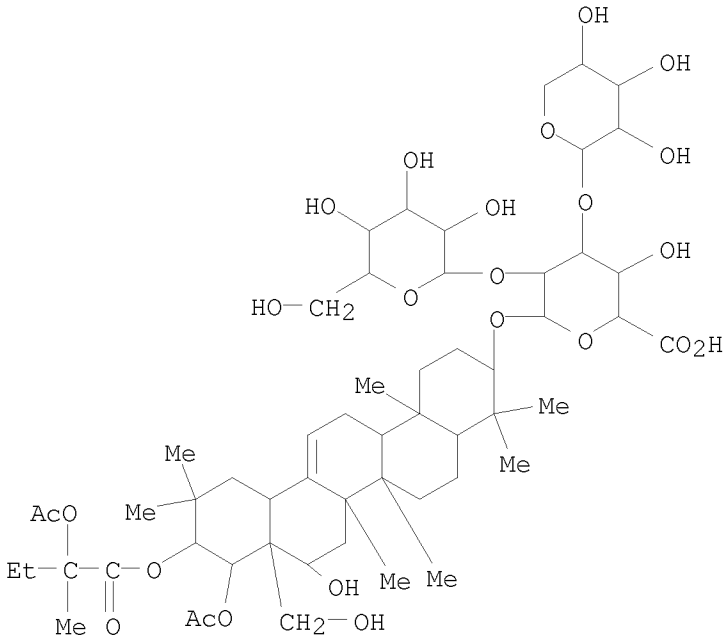
PAGE 1-A



PAGE 2-A



RN 165198-43-6 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-22-(acetyloxy)-21-[2-(acetyloxy)-2-methyl-1-oxobutoxy]-16,28-dihydroxyolean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-glucopyranosyl-(1→2)]- (9CI) (CA INDEX NAME)



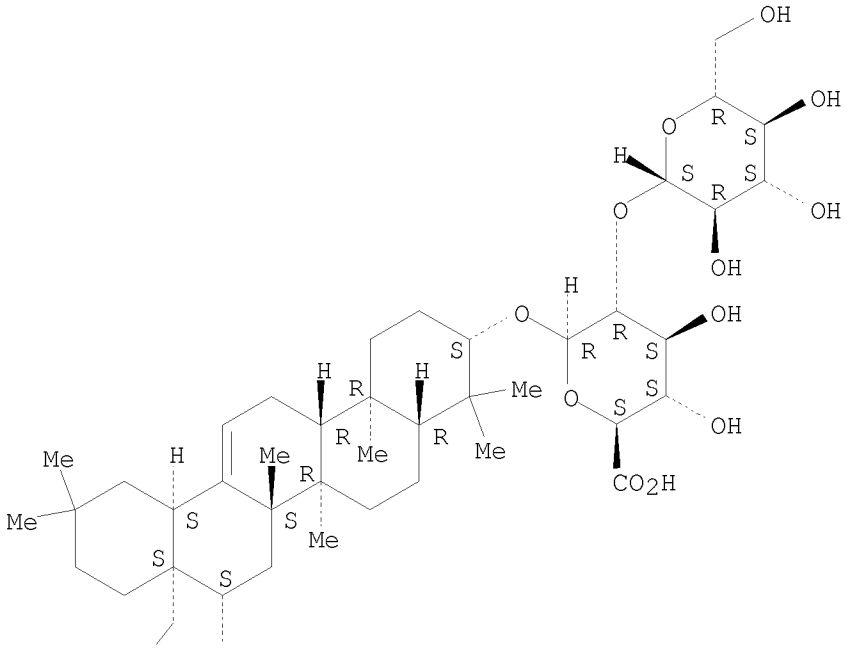
L4 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Triterpenoid saponin from Gymnema inodorum as a diabetes mellitus drug.
AB A novel triterpenoid saponin having neither unpleasant taste, such as astringency and bitterness, nor inhibitory effect on the sweet taste responses, but having an inhibitory effect on glucose absorption, and therefore useful as a preventive and therapeutic agent for diabetes mellitus (no data), is described. The triterpenoid saponin is (3β,16β)-16,28-dihydroxyolean-12-en-3-yl-2-O-β-D-glucopyranosyl-β-D-glucopyranosiduronic acid. The saponin is obtained by subjecting leaves of G. inodorum to extraction with a solvent, evaporating the extract to dryness, washing the residue with an acid to remove base ingredients, defatting the washed residue, extracting the defatted residue with acetone, evaporating the extract to dryness, extracting the residue with di-Et carbonate to provide crude crystals, dissolving the crude crystal in methanol, collecting a fraction eluted at 31.0 to 33.0 min by HPLC, and recrystg. the fraction from acetone-chloroform (50:50). A therapeutic diet comprising the triterpenoid saponin is also provided.
AN 1995:470268 HCAPLUS <<LOGINID::20080924>>
DN 122:222825
OREF 122:40559a,40562a
TI Triterpenoid saponin from Gymnema inodorum as a diabetes mellitus drug.
IN Atsuchi, Mikito; Yamashita, Chiaki; Iwasaki, Yoshio
PA Kowa Chemical Industries Co., Ltd., Japan
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 636633	A1	19950201	EP 1993-305973	19930728
	R: CH, DE, FR, GB, IT, LI, NL, SE				

PRAI EP 1993-305973 19930728
IT 150975-93-2P
RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(triterpenoid saponin from Gymnema inodorum as a diabetes mellitus drug)
RN 150975-93-2 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

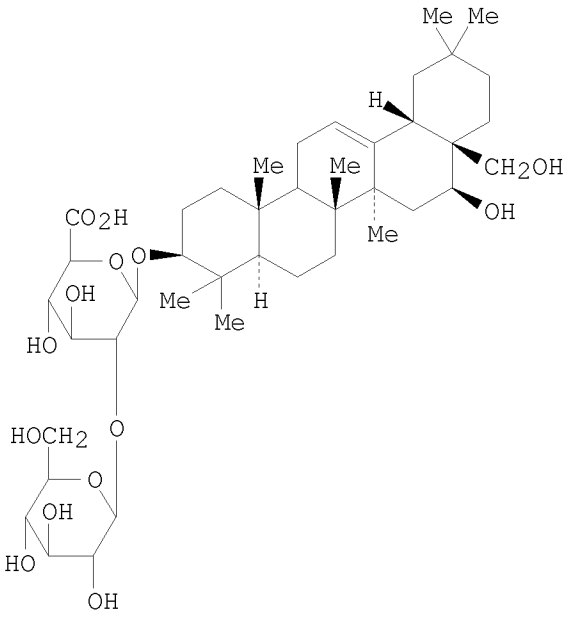
Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A

L4 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Antidiabetics containing triterpene glycoside from Gymnema inodorum
GI



I

AB Prophylactic and therapeutic agents for diabetes contain triterpene glycoside (I) as an active ingredient. Gymnema inodorum leaf (100 g) was ground and extracted with MeOH under reflux for 2 h. The MeOH extract was evaporated, and the evaporated matter was washed with H2O adjusted to pH 2 with HCl, dried, and then washed with petroleum ether. The residual matter was extracted with acetone and the extract was further reflux-extracted with Et2CO3 to give 1.4 g crude I. The crude I dissolved in MeOH was fractionated with TSK gel ODS-80TM column and eluted with H2O/MeCN/AcOH. The eluate was vacuum-dried and the residual matter was recrystd. with acetone and CHCl3 to give 58 g I. I at 0.5 mg/kg was administered p.o. to mice 60 min before administration of sucrose (1 g/kg). Change in blood sugar was maximum 160% after 30 min, vs. ≥200% for a control. A tablet containing I 10, licorice extract 45, dextrin 55, crystalline cellulose 55, CMC Ca 33, and Ca stearate was prepared

AN 1994:622016 HCAPLUS <<LOGINID::20080924>>

DN 121:222016

OREF 121:40189a,40192a

TI Antidiabetics containing triterpene glycoside from Gymnema inodorum

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 06128161	A	19940510	JP 1992-40561	19920131
PRAI JP 1992-40561		19920131		

IT 150975-93-2
RL: BIOL (Biological study)
(diabetes inhibitors containing, from Gymnema inodorum)

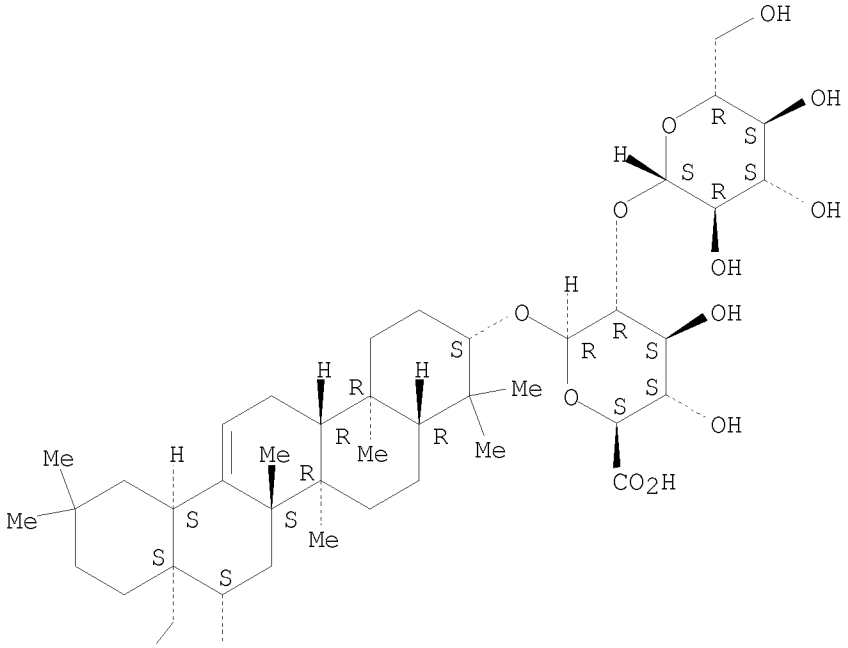
RN 150975-93-2 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX

NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A

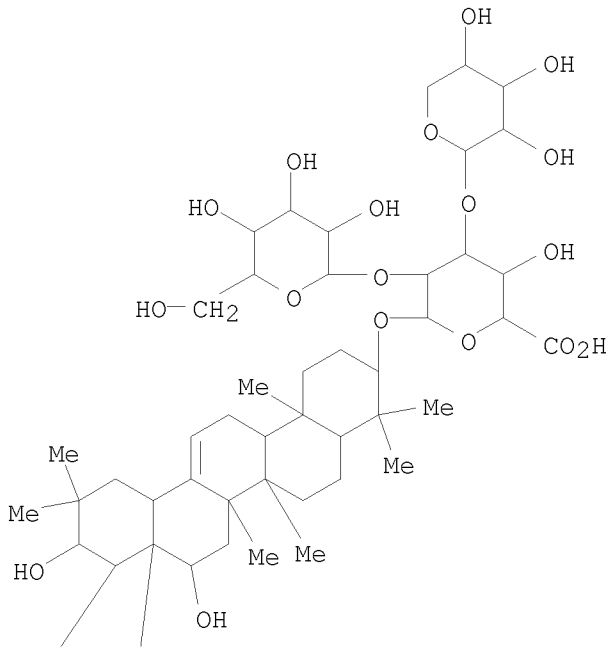


PAGE 2-A

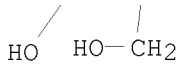
L4 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Saponins from Barringtonia acutangula
AB Three monodesmosidic glucuronide saponins of barringtogenol C, named barringtosides A, B and C have been isolated as their Me esters from the dried seeds of B. acutangula. On the basis of chemical and spectral evidence, the structures of these new saponins were elucidated to be as follows: barringtoside A, 3-O-β-D-xylopyranosyl(1 → 3)-[β-D-galactopyranosyl(→ 2)]-β-D-glucuronopyranosyl barringtogenol C; barringtoside B, 3-O-β-D-xylopyranosyl(1 → 3)-[β-D-galactopyranosyl(→ 2)]-β-D-glucuronopyranosyl-21-O-tigloyl-28-O-isobutyryl barringtogenol C; barringtoside C, 3-O-α-L-arabinopyranosyl(1 → 3)-[β-D-galactopyranosyl(1 → 2)]-β-D-glucuronopyranosyl barringtogenol C.
AN 1994:431097 HCAPLUS <<LOGINID::20080924>>
DN 121:31097
OREF 121:5669a,5672a
TI Saponins from Barringtonia acutangula
AU Pal, Bikas C.; Chaudhuri, Tirthankar; Yoshikawa, Kazuko; Arihara, Shigenobu
CS Indian Inst. Chem. Biol., Calcutta, 700 032, India

SO Phytochemistry (1994), 35(5), 1315-18
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
IT 155740-17-3, Barringtoside A 155740-18-4, Barringtoside B 155836-06-9, Barringtoside C
RL: BIOL (Biological study)
(from Barringtonia acutangula, isolation and structure of)
RN 155740-17-3 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

PAGE 1-A

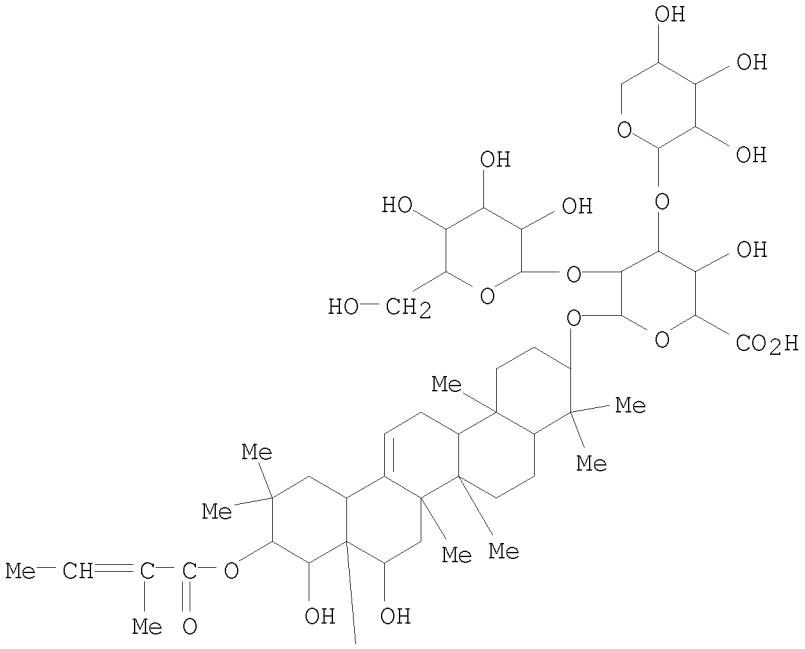


PAGE 2-A

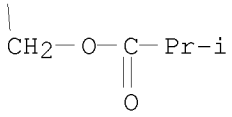


RN 155740-18-4 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,22-dihydroxy-21-[[(2E)-2-methyl-1-oxo-2-butenyl)oxy]-28-(2-methyl-1-oxopropoxy]olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]- (9CI) (CA INDEX NAME)

PAGE 1-A



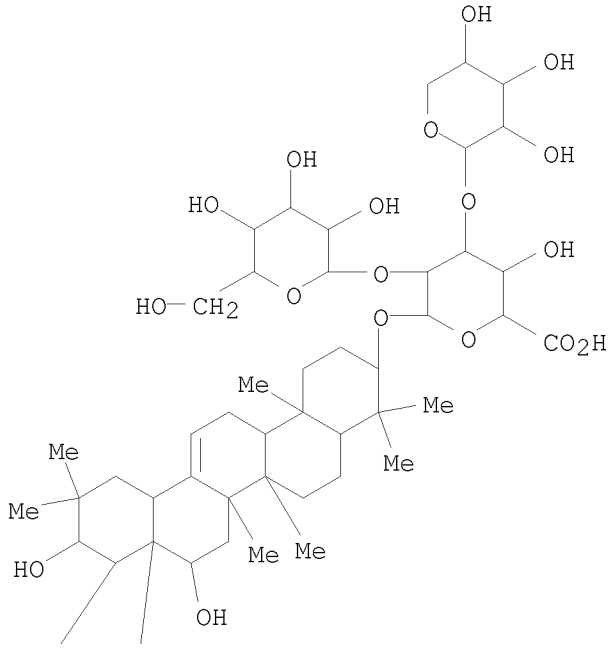
PAGE 2-A



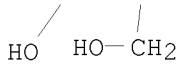
RN 155836-06-9 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-galactopyranosyl-(1→2)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

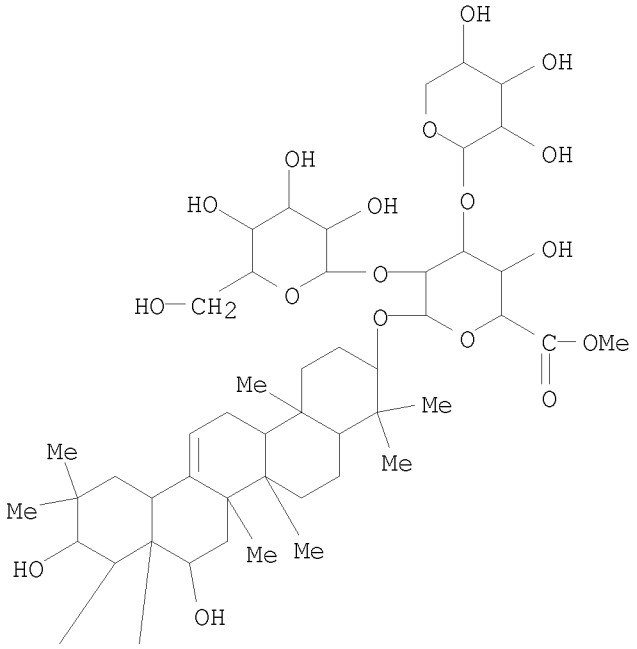


IT 155511-28-7P, Barringtoside A methyl ester 155511-29-8P, Barringtoside B methyl ester 155551-31-8P, Barringtoside C methyl ester
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)

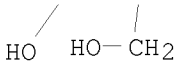
RN 155511-28-7 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



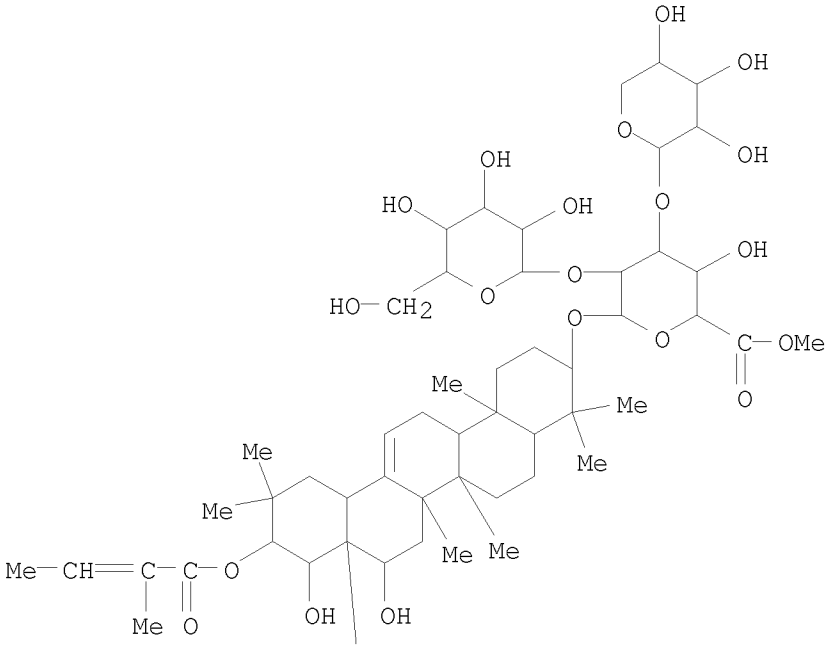
PAGE 2-A



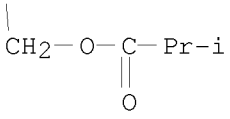
RN 155511-29-8 HCAPLUS

CN β-D-Glucopyranosiduronic acid, [3β,16α,21β-(E),22α]-16,22-dihydroxy-21-[(2-methyl-1-oxo-2-butenyl)oxy]-28-(2-methyl-1-oxopropoxy)olean-12-en-3-yl O-β-D-galactopyranosyl-(1→2)-O-[β-D-xylopyranosyl-(1→3)]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

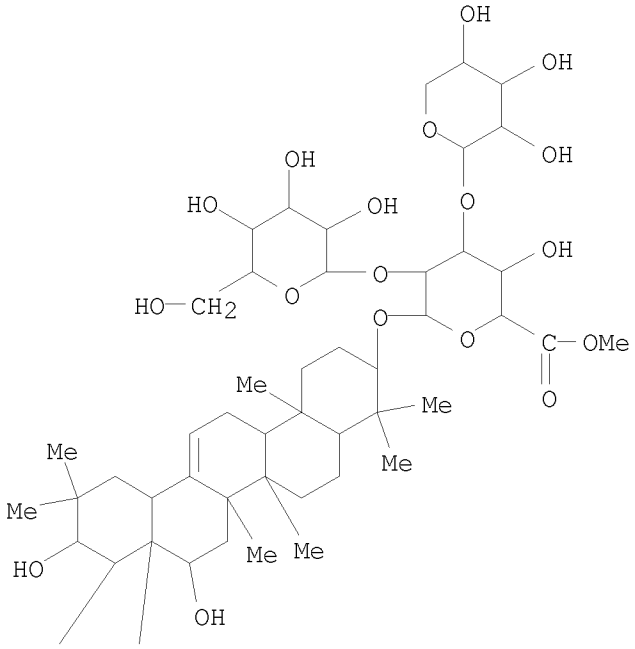


PAGE 2-A

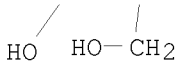


RN 155551-31-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl O-α-L-arabinopyranosyl-(1→3)-O-[β-D-galactopyranosyl-(1→2)]-, methyl ester (9CI) (CA INDEX NAME)

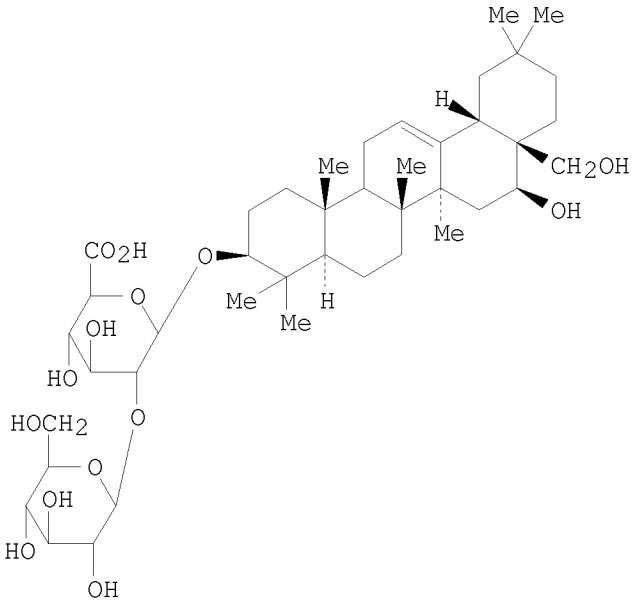
PAGE 1-A



PAGE 2-A



L4 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Antidiabetic triterpene glycoside and its manufacture from Gymnema inodorum
GI



I

AB Triterpene glycoside I, which inhibits absorption of sugars and is bitterness-free, is manufactured by extraction of G. inodorum leaf with solvents, drying, washing with petroleum ether, extraction with Me2CO, drying, extraction with di-Et carbonate, and precipitation of the crystals. I at 0.5 mg/kg p.o. inhibited increase of blood sugar level in sucrose-treated mice.

AN 1994:62261 HCAPLUS <<LOGINID::20080924>>

DN 120:62261

OREF 120:11129a,11132a

TI Antidiabetic triterpene glycoside and its manufacture from Gymnema inodorum

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05247086	A	19930924	JP 1992-40651	19920131
PRAI JP 1992-40651		19920131		

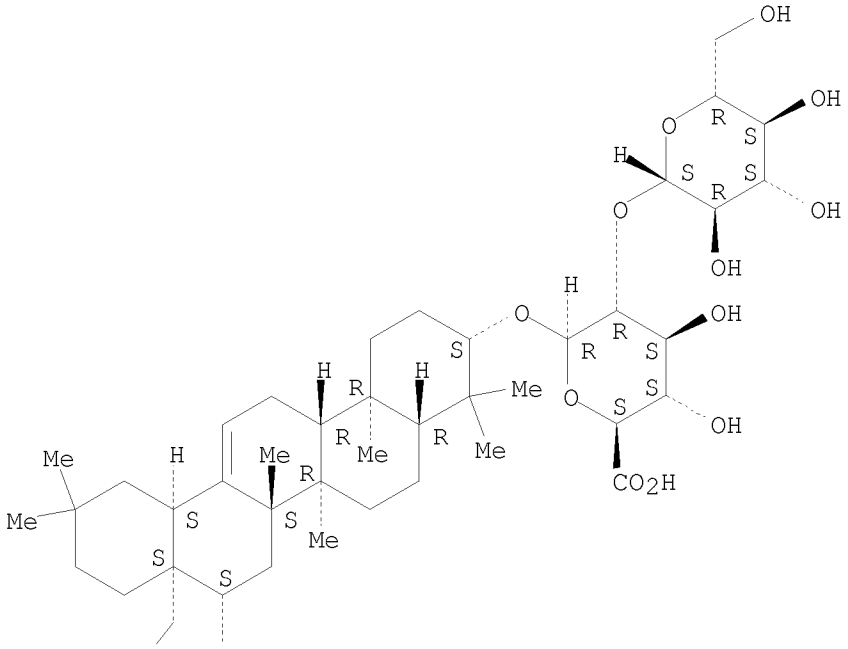
IT 150975-93-2
RL: BIOL (Biological study)
(extraction and antidiabetic activity of, from Gymnema inodorum)

RN 150975-93-2 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

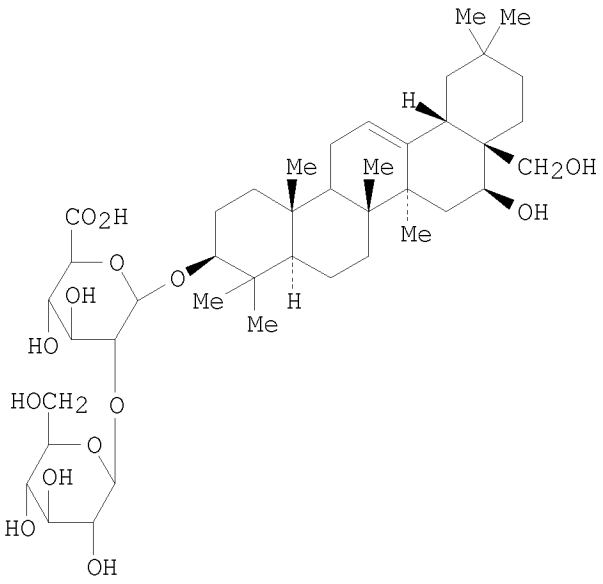
Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A

L4 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Triterpene glycosides as additives for foods and beverages
GI



I

AB Triterpene glycoside I is useful as an additive for foods and beverages for suppression of sugar absorption, a desirable quality for diabetic patients. I (58 mg) was extracted and purified from 100 g dried leaves of Gymnema inodorum. Mice were administered i.p. with I (at 0.5 mg/kg) and p.o. with sucrose (at 1 g/kg) 60 min later to show increase in the blood glucose level to .apprx.150% 30 min after the administration of sucrose, vs. .apprx.250%, for controls without administration of I. I did not inhibit the sweetness of sucrose. Chocolate containing I was made.

AN 1993:648593 HCAPLUS <<LOGINID::20080924>>

DN 119:248593

OREF 119:44351a,44354a

TI Triterpene glycosides as additives for foods and beverages

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05211856	A	19930824	JP 1992-40653	19920131
PRAI JP 1992-40653		19920131		

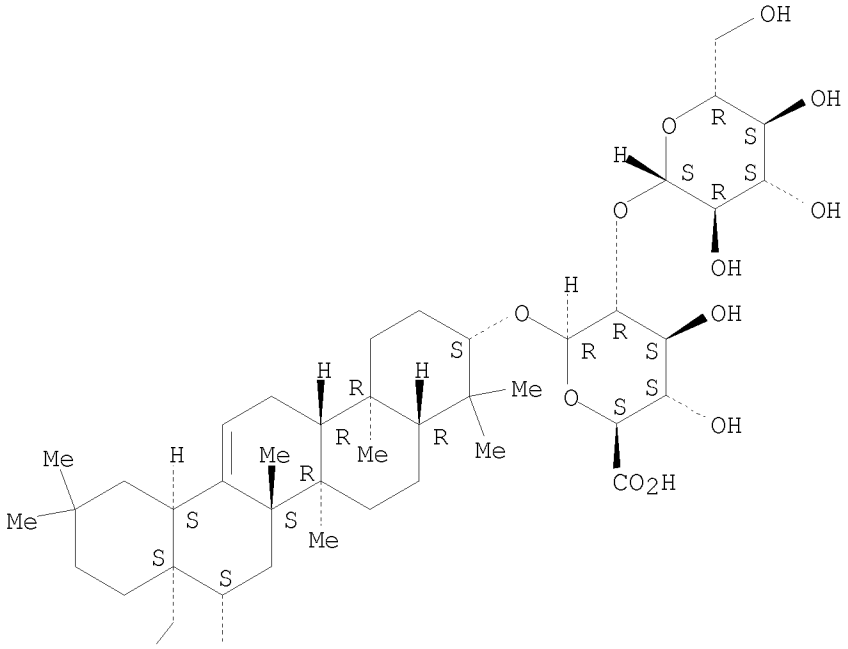
IT 150975-93-2
RL: BIOL (Biological study)
(from Gymnema inodorum, foods and beverages containing, sugar absorption-inhibiting)

RN 150975-93-2 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

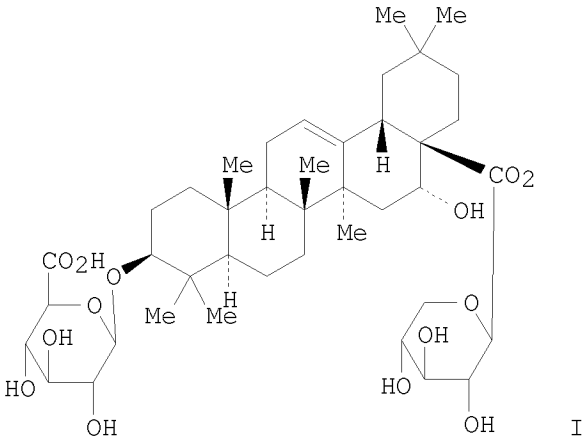
Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A

L4 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Tragopogonosides A-I, oleanane saponins from Tragopogon pratensis
GI



I

AB Nine new triterpenic saponins, tragopogonoside A (I), and tragopogonosides B-I, were isolated from the whole plants of T. pratensis, together with 5 known triterpenic glycosides. The structures of these saponins were determined on the basis of spectral and chemical evidence.

AN 1992:486776 HCAPLUS <<LOGINID::20080924>>

DN 117:86776

OREF 117:15067a,15070a

TI Tragopogonosides A-I, oleanane saponins from Tragopogon pratensis

AU Miyase, Toshio; Kohsaka, Hiromi; Ueno, Akira

CS Sch. Pharm. Sci., Univ. Shizuoka, Shizuoka, 422, Japan

SO Phytochemistry (1992), 31(6), 2087-91
CODEN: PYTCAS; ISSN: 0031-9422

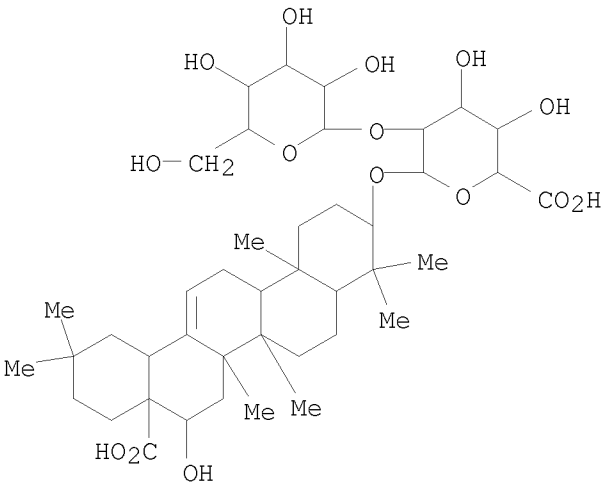
DT Journal

LA English

IT 142784-41-6, Tragopogonoside B
RL: BIOL (Biological study)
(of Tragopogon pratensis, structure of)

RN 142784-41-6 HCAPLUS

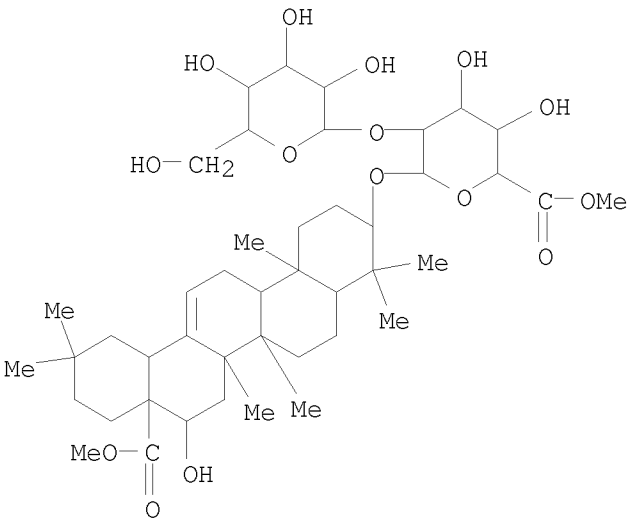
CN β-D-Glucopyranosiduronic acid, (3β,16α)-17-carboxy-16-hydroxy-28-norolean-12-en-3-yl 2-O-β-D-galactopyranosyl- (9CI) (CA INDEX NAME)



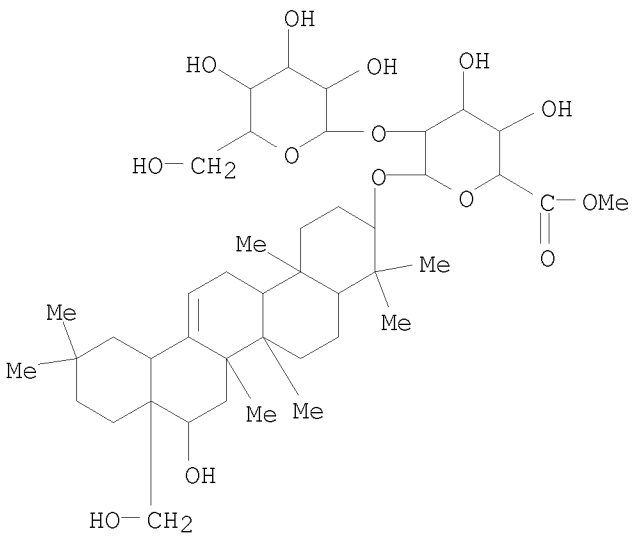
IT 142806-94-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 142806-94-8 HCAPLUS

CN β-D-Glucopyranosiduronic acid, (3β,16α)-16-hydroxy-28-methoxy-28-oxoolean-12-en-3-yl 2-O-β-D-galactopyranosyl-, methyl ester (9CI) (CA INDEX NAME)



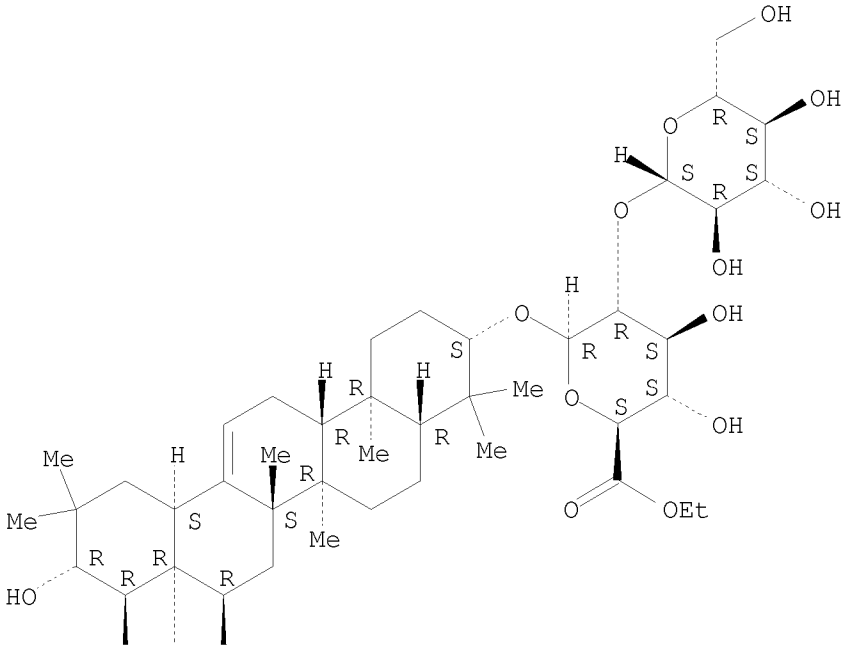
L4 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Saponin and sapogenol. XVII. Structure of Sakuraso-saponin, a pentaglycoside of protoprimulagenin A from the root of Primula sieboldi E. Morren
GI For diagram(s), see printed CA Issue.
AB The title glycoside (I) on complete acid hydrolysis gave primulagenin A (II), glucose, galactose, rhamnose, and glucuronic acid, while the ultraviolet irradiation of I gave protoprimulagenin A (III). On the bases of the chemical and physicochem. investigations the full structure of I was established.
AN 1977:106978 HCAPLUS <<LOGINID::20080924>>
DN 86:106978
OREF 86:16893a
TI Saponin and sapogenol. XVII. Structure of Sakuraso-saponin, a pentaglycoside of protoprimulagenin A from the root of Primula sieboldi E. Morren
AU Kitagawa, Isao; Ikenishi, Yuji; Yoshikawa, Masayuki; Yosioka, Itiro
CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan
SO Chemical & Pharmaceutical Bulletin (1976), 24(10), 2470-9
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
IT 61844-92-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 61844-92-6 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl-, methyl ester (9CI) (CA INDEX NAME)



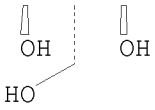
L4 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Saponin and sapogenol. X. Structures of jegosapogenin and desacyljegosaponin obtained from pericarps of Styrax japonica
GI For diagram(s), see printed CA Issue.
AB The structures of jegosapogenin obtained along with barringtogenol C and barringtogenol D by acid hydrolysis of the pericarps saponin of S japonica and of deacyljegosaponin, prepared by alkaline treatment of jegosaponin, were established as I and II on the basis of chemical and physiochem. evidence.
AN 1975:564392 HCAPLUS <<LOGINID::20080924>>
DN 83:164392
OREF 83:25807a,25810a
TI Saponin and sapogenol. X. Structures of jegosapogenin and desacyljegosaponin obtained from pericarps of Styrax japonica
AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan
SO Chemical & Pharmaceutical Bulletin (1975), 23(7), 1520-31
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
IT 53829-34-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 53829-34-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-16,21,22,28-tetrahydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 2-A

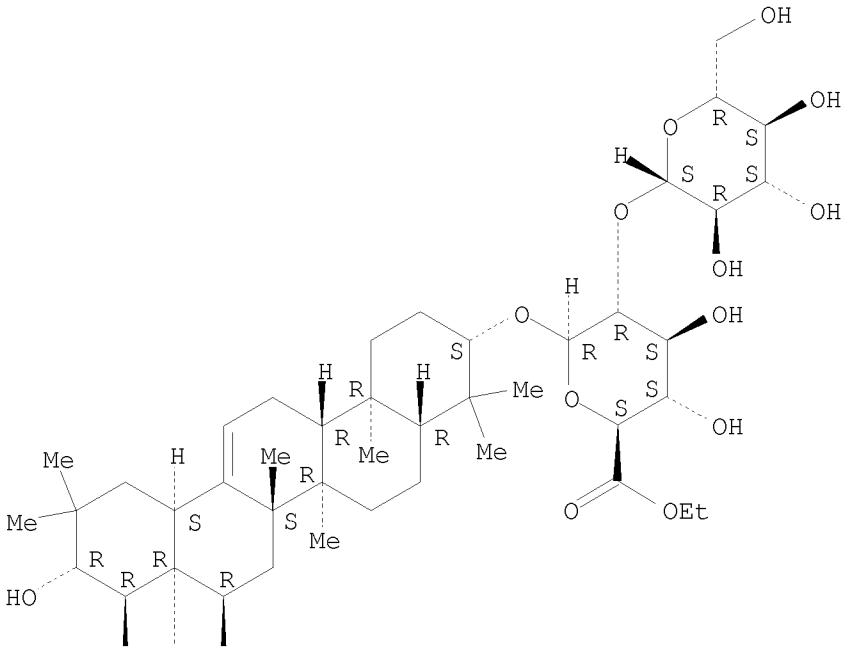


L4 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Structure of desacyl-jegosaponin, a common desacyl derivative of jegosaponin isolated from pericarps of Styrax japonica
GI For diagram(s), see printed CA Issue.
AB The terpene glycoside, deacyljegosaponin, has the structure I, based on chemical and spectral data.
AN 1974:536447 HCAPLUS <<LOGINID::20080924>>
DN 81:136447
OREF 81:21489a,21492a
TI Structure of desacyl-jegosaponin, a common desacyl derivative of jegosaponin isolated from pericarps of Styrax japonica
AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
CS Fac. Pharm. Sci., Osaka Univ., Toyonaka, Japan
SO Chemical & Pharmaceutical Bulletin (1974), 22(7), 1675-7
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
IT 53829-34-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 53829-34-8 HCAPLUS
CN β-D-Glucopyranosiduronic acid, (3β,16α,21β,22α)-

16,21,22,28-tetrahydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

PAGE 1-A



PAGE 2-A